15A NCAC 02B .0262 is proposed for adoption as follows:

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15A NCAC 02B .0262 JORDAN WATER **SUPPLY** NUTRIENT STRATEGY: WATERSHED

- 4 NUTRIENT REDUCTION GOALS
- 5 B. Everett Jordan Reservoir and all lands and waters within its watershed, hereafter referred to as Jordan watershed,
- 6 have been supplementally classified as Nutrient Sensitive Waters (NSW) pursuant to 15A NCAC 2B .0223. The
- 7 following requirements are intended to restore and maintain nutrient-related water quality standards in the
- 8 Reservoir; protect its classified uses, including use as a source of water supply for drinking water, culinary and food
- 9 processing purposes; and maintain or enhance protections currently implemented by local governments in existing
- 10 water supply watersheds. Water supply waters designated WS-II, WS-III, and WS-IV within the Jordan watershed
- 11 shall retain their classifications. The remaining waters in the Jordan watershed are hereby classified WS-V. The
- 12 requirements of all of these water supply classifications shall be retained and applied except as specifically noted
- 13 within this Rule and Rules 02B .0263 through 02B .0272 and 02B .0311. Lake storage is in the Upper and Lower
- 14 New Hope arm watershed, which has an average hydraulic retention time of 418 days and includes all or portions of Orange, Durham and Wake counties and the urbanized areas of Durham, Chapel Hill, Cary, and Hillsborough.
- 16 The entire Jordan watershed The New Hope Watershed is hereby designated a critical water supply watershed and
- 17 given additional, more stringent requirements than the state minimum water supply watershed management
- 18 requirements pursuant to G.S. 143-214.5(b). Local governments throughout Jordan watershed shall amend existing
- 19 ordinances and programs as needed or adopt ordinances and programs to comply with these requirements. The
- 20 following requirements shall constitute the Jordan water supply nutrient strategy and the more stringent
- 21 requirements for the Jordan watershed as a critical water supply watershed:
- 22 STRATEGY GOAL. Pursuant to the Clean Water Responsibility Act of 1997, G.S. 143-(1)
- 23 215.1(c5), the Environmental Management Commission hereby establishes the initial goal of 24 reducing the average annual loads of nitrogen and phosphorus delivered to Jordan Reservoir from
- 25 all point and nonpoint sources of these nutrients located within its watershed, as further specified
- 26 in Item (3) of this Rule and providing for an adaptive management of the initial goal, as further
- 27 specified in Item (7) of this Rule.
 - (2) RESERVOIR ARMS AND SUBWATERSHEDS. This Rule divides Jordan Reservoir and its
- 29 entire watershed into three arms and their respective subwatersheds as follows:
 - The Upper New Hope arm of the reservoir, identified by index numbers 16-41-1-(14), (a)
 - 16-41-2-(9.5), and 16-41-(0.5) in the Schedule of Classifications for the Cape Fear River
 - Basin, Rule 15A NCAC 02B .0311, encompasses the upper end of the reservoir upstream
- 33 of SR 1008, and its subwatershed encompasses all lands and waters draining into it.
- 34 (b) The Lower New Hope arm of the reservoir, identified by index number 16-41-(3.5) in the
- 35 Schedule of Classifications for the Cape Fear River Basin, Rule 15A NCAC 02B .0311,
- 36 lies downstream of SR 1008 and upstream of the Jordan Lake Dam, excluding the Haw
- 37 River arm of the reservoir, and its subwatershed encompasses all lands and waters

1			drainin	ng into the Lower New Hope arm of the reservoir excluding those that drain first to
2			the Up	per New Hope arm of the reservoir and Haw River arm of the reservoir.
3		(c)	The H	law River arm of the reservoir, identified by index number 16-(37.5) in the
4			Schedu	ule of Classifications for the Cape Fear River Basin, Rule 15A NCAC 02B .0311,
5			lies im	mediately upstream of Jordan Lake Dam, and its subwatershed includes all lands
6			and wa	aters draining into the Haw River arm of the reservoir excluding those first draining
7			into the	e Upper and Lower New Hope arms.
8	(3)	NUTRIE	ENT RE	EDUCTION GOALS. Each arm of the lake has initial reduction goals, and initial
9		point so	urce an	nd nonpoint source loading targets for both nitrogen and phosphorus based on a
10		field-cal	ibrated	nutrient response model developed pursuant to provisions of the Clean Water
11		Respons	ibility 1	Act of 1997, G.S. 143-215.1(c5). The initial reduction goals and loading targets
12		are to be	met co	ollectively by the sources regulated under the Rules listed in Item (6) of this Rule.
13		The init	ial redu	action goals are expressed in terms of a percentage reduction in delivered loads
14		from the	baselii	ne years, 1997-2001, while initial loading targets are expressed in pounds per year
15		of delive	red loa	d. Each arm and subwatershed shall conform to its respective initial allocations for
16		nitrogen	and ph	osphorus as follows:
17		(a)	The in	itial at-lake nitrogen loading reduction goals for the arms of Jordan Reservoir,
18			which	may be modified periodically by Item (7) of this Rule, regarding adaptive
19			manag	ement, are as follows:
20			(i)	The Upper New Hope arm has a 1997-2001 baseline nitrogen load of 986,186
21				pounds per year, a Total Mass Daily Load (TMDL) reduction goal of 35 percent,
22				and a resulting TMDL of 641,021 pounds of nitrogen per year. The initial point
23				source mass load target is 336,079 pounds of nitrogen per year, and the initial
24				nonpoint source mass load target is 304,942 pounds of nitrogen per year.
25			(ii)	The Lower New Hope arm has a 1997-2001 baseline nitrogen load of 221,929
26				pounds per year, the nitrogen TMDL is capped at the baseline nitrogen load, and
27				the resulting TMDL is 221,929 pounds of nitrogen per year. The initial point
28				source mass load target is 6,836 pounds of nitrogen per year, and the initial
29				nonpoint source mass load target is 215,093 pounds of nitrogen per year.
30			(iii)	The Haw River arm has a 1997-2001 baseline nitrogen load of 2,790,217 pounds
31				per year, a TMDL percentage reduction of 8 percent, and a resulting TMDL of
32				2,567,000 pounds of nitrogen per year. The initial point source mass load target
33				is 895,127 pounds of nitrogen per year, and the initial nonpoint source mass load
34				target is 1,671,873 pounds of nitrogen per year.
35		(b)	The in	itial at-lake phosphorus loading reduction goals for the arms of Jordan Reservoir,
36			which	may be modified periodically by Item (7) of this Rule, regarding adaptive
37			manag	ement, are as follows:

1			(i)	The Upper New Hope arm has a 1997-2001 baseline phosphorus load of 87,245
2				pounds per year, a TMDL percentage reduction of 5 percent, and a resulting
3				TMDL of 82,883 pounds of phosphorus per year. The initial point source mass
4				load target is 23,108 pounds of phosphorus per year, and the initial nonpoint
5				source mass load target of 59,775 pounds of phosphorus per year.
6			(ii)	The Lower New Hope arm has a 1997-2001 baseline phosphorus load of 26,574
7				pounds per year, the phosphorus TMDL is capped at the baseline phosphorus
8				load, and the resulting TMDL is 26,574 pounds of phosphorus per year. The
9				initial point source mass load target is 498 pounds of phosphorus per year, and
10				the initial nonpoint source mass load target of 26,078 pounds of phosphorus per
11				year.
12			(iii)	The Haw River arm has a 1997-2001 baseline phosphorus load of 378,569
13				pounds per year, a TMDL percentage reduction of 5 percent, and a resulting
14				TMDL of 359,641 pounds of phosphorus per year. The initial point source mass
15				load target is 106,001 pounds of phosphorus per year, and the initial nonpoint
16				source mass load target of 253,640 pounds of phosphorus per year.
17	(4)	RELAT	ION TO	WATER SUPPLY REQUIREMENTS. For all waters designated as WS-II, WS-
18		III, or V	VS-IV w	ithin the Jordan watershed, the requirements of water supply rules 15A NCAC
19		02B .02	14 throu	gh .0216 shall remain in effect with the exception of Sub-Item (3)(b) of those
20		rules add	dressing	nonpoint sources. The nonpoint source requirements of Sub-Item (3)(b) of those
21		rules are	e superse	eded by the requirements of this Rule and rules 15A NCAC 02B .0263 through
22		.0269, .0	0271, an	d .0272, except as specifically stated in any of these rules. For the remaining
23		waters o	of Jordan	watershed, hereby designated WS-V, the requirements of water supply rule $15\mathrm{A}$
24		NCAC (02B .021	8 and rules $15A\ NCAC\ 02B\ .0263$ through .0272 and .0311 shall be applied. For
25		WS-II,	WS-III,	and WS-IV waters, the retained requirements of rules 15A NCAC 02B .0214
26		through	.0216 in	clude the following:
27		(a)	Item (1)	of Rules 15A NCAC 02B .0214 through .0216 addressing best usages;
28		(b)	Item (2	e) of Rules 15A NCAC 02B .0214 through .0216 addressing predominant
29			watersh	ed development conditions, discharges expressly allowed watershed-wide,
30			general	prohibitions on and allowances for domestic and industrial discharges, Maximum
31			Contam	inant Levels following treatment, and the local option to seek more protective
32			classific	eations for portions of existing water supply watersheds;
33		(c)	Sub-Iter	m (3)(a) of Rules 15A NCAC 02B .0214 through .0216 addressing waste
34			discharg	ge limitations; and
35		(d)	Sub-Ite	ns (3)(c) through (3)(h) of Rules 15A NCAC 02B .0214 through .0216 addressing
26			aectheti	c and human health standards

1	(5)	RULES ENUN	MERATED. The additional requirements set out in this Rule and Rules 02B .0263
2		through .0272	and .0311address both point sources and nonpoint sources and shall be
3		implemented-v	vithin the Jordan watershed in order to achieve the nutrient reduction goals stated
4		herein and to p	rotect water supplies in the Jordan watershed. The requirements set out in the rules
5		listed below su	pplement the water quality standards applicable to Class C waters, as described in
6		Rule .0211 of	this Section, that apply to all waters of the Jordan watershed. The following rules
7		shall be implen	nented within the Jordan watershed:
8		(a) Rule.	0262 Watershed Nutrient Reduction Goals
9		(b) Rule.	0263 Nutrient Management
10		(c) Rule.	0264 Agriculture
11		(d) Rule.	0265 Stormwater Management for New Development
12		(e) Rule.	0266 Stormwater Management for Existing Development
13		(f) Rule.	0267 Protection of Existing Riparian Buffers
14		(g) Rule.	0268 Mitigation for Riparian Buffers
15		(h) Rule.	0269 Options for Offsetting Nutrient Loads
16		(i) Rule.	0270 Wastewater Discharge Requirements
17		(j) Rule.	0271 Stormwater Requirements for State and Federal Entities
18		(k) Rule.	0272 Riparian Buffer Mitigation Fees
19		(l) Rule.	0311 Cape Fear River Basin
20	(6)	APPLICABILI	TY. Although this Rule and Rules 02B .0263 through 02B .0272 and .0311 apply
21		throughout the	Jordan watershed unless otherwise specified, Rules .0265, .0266, .0267, .0268, and
22		.0269 shall app	ly to local governments in the Jordan watershed as follows:
23		(a) Rules	.0265, .0266, .0267, .0268, and .0269 shall apply to all incorporated municipalities
24		withir	the Jordan watershed as identified by the Office of the Secretary of State. Those
25		munic	ipalities shall include:
26		(i)	Alamance
27		(ii)	Apex
28		(iii)	Burlington
29		(iv)	Carrboro
30		(v)	Cary
31		(vi)	Chapel Hill
32		(vii)	Durham
33		(viii)	Elon
34		(ix)	Gibsonville
35		(x)	Graham
36		(xi)	Green Level
37		(xii)	Greensboro

1			(X111)	Haw River
2			(xiv)	Kernersville
3			(xv)	Mebane
4			(xvi)	Morrisville
5			(xvii)	Oak Ridge
6			(xviii)	Ossipee
7			(xix)	Pittsboro
8			(xx)	Pleasant Garden
9			(xxi)	Reidsville
10			(xxii)	Sedalia
11			(xxiii)	Stokesdale
12			(xxiv)	Summerfield
13			(xxv)	Wilsonville
14			(xxvi)	Whitsett
15		(b)	Rules .0	265, .0266, .0267, .0268, and .0269 shall apply to the following counties:
16			(i)	Alamance
17			(ii)	Caswell
18			(iii)	Chatham
19			(iv)	Durham
20			(v)	Guilford
21			(vi)	Orange
22			(vii)	Rockingham
23			(viii)	Wake
24	(7)	ADAPT	TIVE MA	NAGEMENT. The initial loading goals defined in Item (3) of this Rule may be
25		adjusted	d based or	n an evaluation of the effectiveness of the nutrient reduction strategy after at least
26		five year	ars of im	plementation and periodically thereafter as part of the review of the Cape Fear
27		River B	asinwide	Water Quality Plan. The Division shall base any adjustment on evaluation of
28		addition	nal water	quality data. Such evaluation shall include, but shall not be limited to, the results
29		of a cal	ibrated la	ke nutrient response model, trend analyses as described in the monitoring section
30		of the	B. Evere	t Jordan Reservoir, North Carolina Nutrient Management Strategy and Total
31		Maximi	ım Daily	Load, and lake use support assessment as conducted every five years for the Cape
32		Fear Ri	iver Basi	nwide Water Quality Plan. The nutrient response modeling and monitoring on
33		which a	ın adjustr	nent may be based shall meet the criteria set forth in the Clean Water Act, G.S.
34		143-215	5.1(c5), a	nd meet or exceed criteria used by the Division for the monitoring and modeling
35		used to	establish	the goals in Item (3) of this Rule. Loading goals adjusted as described here shall
36		apply to	the rules	identified in Item (5) of this Rule upon approval by the Commission.

1	(8)	LIMITATION: 15A NCAC 02B .0262 through .0272 may not fully address significant nutrier	ıt
2		sources in the Jordan Watershed in that the rules do not directly address atmospheric sources of	of
3		nitrogen to the watershed from sources located both within and outside of the watershed. A	S
4		better information becomes available from ongoing research on atmospheric nitrogen loading t	0.
5		the watershed from these sources, and on measures to control this loading, the Commission ma	y
6		undertake separate rule making to require such measures it deems necessary from these sources t	0
7		support the goals of the Jordan Reservoir Nutrient Strategy.	
8	(9)	ENFORCEMENT. Failure to meet requirements of Rules .0262, .0263, .0264, .0265, .0266	5,
9		.0267, .0268, .0269, .0270,.0271 and .0272 of this Section may result in imposition of	of
10		enforcement measures as authorized by G. S. 143-215.6A (civil penalties), G.S. 143-215.6	В
11		(criminal penalties), and G.S. 143-215.6C (injunctive relief).	
12			
13	History Note:	Authority G. S. 143-214.1; 143-214.5; 143-214.7; 143-215.1; 143-215.3(a)(1); 143-215.6A; 143-	
14		215.6A; 143-215.6B; 143 215.6C; 143-215.8B(b); 143B-282(c); 143B-282(d); S.L. 2005-1	
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16	15A NCAC 021	B .0265 is proposed for adoption as follows:	
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18	15A NCAC 021	B.0265 JORDAN WATER SUPPLY NUTRIENT STRATEGY: STORMWATER	R
19	MANAGEME	NT FOR NEW DEVELOPMENT	
20	The following i	is the stormwater strategy for new development activities within the Jordan watershed, as prefaced i	n
21	Rule 15A NCA	C 02B .0262:	
22	(1)	PURPOSE. The purposes of this Rule are as follows:	
23		(a) To achieve and maintain the nitrogen and phosphorus loading goals established for	r
24		Jordan Reservoir in Rule 15A NCAC 02B .0262 from lands in the Jordan watershed o	n
25		which new development occurs. New development is development that occur	S
26		subsequent to the effective date of, and is subject to, local stormwater management	ıt
27		programs established under this Rule;	
28		(b) To provide control for stormwater runoff from new development in Jordan watershed t	0.
29		ensure that the integrity and nutrient processing functions of receiving waters an	d
30		associated riparian buffers are not compromised by erosive flows; and	
31		(c) To protect the water supply uses of Jordan Reservoir and of designated water supplied	ès
32		throughout the Jordan watershed from the potential impacts of new development.	
33	(2)	APPLICABILITY. This Rule shall apply to municipalities and counties in the Jordan watershe	d
34		as identified in Rule 15A NCAC 02B .0262.	
35	(3)	REQUIREMENTS. All local governments subject to this Rule shall develop stormwater)r
36		management programs for submission to and approval by the Commission incorporating th	
		management programs for sacrinssion to and approvar by the commission meorporating in	Н

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(a) An approved stormwater management plan shall be required for all proposed new development within their jurisdictions disturbing one acre or more for single family and duplex residential property and recreational facilities, and one half acre or more for commercial, industrial, institutional, or multifamily residential property. These stormwater plans shall not be approved by the subject local governments unless the following criteria are met:

- Nitrogen and phosphorus loads contributed by the proposed new development (i) activity shall not exceed certain unit-area mass loading rates. These loading rates shall be calculated as the percentage reduction goals established in Rule 15A NCAC 02B .0262 for the subwatershed or subwatersheds in which the development occurs, applied to area-weighted average loading rates of developable lands in the same subwatershed or subwatersheds. These areaweighted average loading rates shall be derived from land use and loading data representative of the baseline period defined in Rule 15A NCAC 02B .0262. Initial values for nitrogen and phosphorus loading rate targets respectively in each subwatershed shall be the following, expressed in units of pounds per acre per year: 2.2 and 0.82 in the Upper New Hope; 4.4 and 0.78 in the Lower New Hope; and 3.8 and 1.43 in the Haw. The Division may adjust these initial values based on improved land use and loading data or based on modifications to the strategy reduction goals in Section (7) of Rule 15A NCAC 02B .0262. The developer shall determine the need for engineered stormwater controls to meet these loading rate targets by using the loading calculation method called for in Sub-Item (4)(a) or other similar method acceptable to the Division.
- (ii) Proposed new development in any water supply watershed in the Jordan watershed designated WS II, WS III, or WS IV shall comply with the density-based restrictions, obligations, and requirements for engineered stormwater controls, clustering options, and 10/70 provisions described in Sections (3)(b)(i) and (3)(b)(ii) of the applicable Rule among Rules 15A NCAC 02B .0214 through .0216;
- (iii) Stormwater systems shall be designed to control and treat the runoff generated from all surfaces by one inch of rainfall. The treatment volume shall be drawn down no faster than 48 hours and no slower than 120 hours. Treatment systems shall achieve an 85 percent average annual removal rate for Total Suspended Solids. To ensure that the integrity and nutrient processing functions of receiving waters and associated riparian buffers are not compromised by erosive flows, stormwater flows from the new development shall not contribute to degradation of waters of the State. At a minimum, the new development shall

1		not regult in a not increase in most flavulacting the site from me developmen
1		not result in a net increase in peak flow leaving the site from pre-developmen
2	(:-)	conditions for the one-year, 24-hour storm event;
3	(iv)	Proposed new development that would replace or expand structures or
4		improvements that existed as of December 2001, the end of the baseline period
5		and that would not result in a net increase in built upon area shall not be
6		required to meet the nutrient loading targets or high-density requirements excep
7		to the extent that it shall provide at least equal stormwater control to the
8		previous development. Proposed new development that would replace of
9		expand existing structures or improvements and would result in a net increase in
10		built upon area shall have the option to either achieve at least the percentage
11		loading reduction goals stated in Rule 15A NCAC 02B .0262 as applied to
12		nitrogen and phosphorus loading from the previous development for the entire
13		project site, or to meet the loading rate targets described in Section (3)(a)(i)
14		These requirements shall supersede those identified in Rule 15A NCAC 02F
15		.0104(q);
16	(v)	Proposed new development shall comply with the riparian buffer protection
17		requirements of Rules 15A NCAC 02B .0267 and .0268; and
18	(vi)	Developers shall have the option of partially offsetting their nitrogen and
19		phosphorus loads by funding offsite management measures. These offsite
20		offsetting measures shall achieve at least equivalent reductions in nitrogen and
21		phosphorus loading to the remaining reduction needed onsite to comply with
22		Sub-Item (3)(a)(i) of this Rule. Developers may utilize the offset option
23		provided in Rule 15A NCAC 02B .0240 for this purpose, contingent upor
24		acceptance of their offset proposals by the NC Ecosystem Enhancemen
25		Program. Alternatively, developers may use an offset option provided by the
26		local government in which the development activity occurs, provided that the
27		local government has received prior approval from the Division for the
28		
28 29		offsetting activity pursuant to Rule 15A NCAC 02B .0269. Before using off-site
		offset options, the development shall meet any requirements for engineered
30		stormwater controls described in Section (3)(a)(ii) of this Rule and unde
31		NPDES Phase II regulations, and shall attain a maximum nitrogen loading rate
32		of four six (6) pounds/acre/year for single-family, detached and dupler
33		residential development and 8 ten (10) pounds/acre/year for other development
34		including multi-family residential, commercial and industrial.
35	•	to ensure maintenance of best management practices (BMPs) implemented as a
36	result	of the provisions in Sub-Item (3)(a) of this Rule for the life of the development;

1	(c)	A plan to ensure enforcement and compliance with the provisions in Sub-Items (3)(a) o
2		this Rule for the life of the new development; and
3	(d)	The following requirements in water supply Rule 15A NCAC 02B .0104 shall apply to
4		new development throughout Jordan watershed:
5		(i) Requirements in Section (f) for local governments to assume ultimate
6		responsibility for operation and maintenance of high-density stormwater
7		controls, to enforce compliance, to collect fees, and other measures;
8		(ii) Variance procedures in Section (r);
9		(iii) Assumption of local programs by the Commission in Section (x);
10		(iv) Delegation of Commission authorities to the Director in Section (aa); and
11		(v) Other development-related requirements in Rule 15A NCAC 02B .0104, unless
12		expressly modified by requirements in this Rule, shall also apply throughou
13		Jordan watershed.
14	(4) RU	JLE IMPLEMENTATION. This Rule shall be implemented as follows:
15	(a)	Within 12 months after the effective date of this Rule, the Division shall submit a mode
16		local stormwater program, in conjunction with similar requirements in Rule 15A NCAC
17		02B .0266, that embodies the criteria described in Item (3) of this Rule to the
18		Commission for approval. The model program shall include a tool that will allow
19		developers to account for nutrient loading from development lands and loading change
20		due to BMP implementation to meet the requirements of Item (3) of this Rule. The
21		Division shall work in cooperation with subject local governments and other watershed
22		interests in developing this model program;
23	(b)	Within six months after the Commission's approval of the model local stormwate
24		program, subject local governments shall submit stormwater management programs, in
25		conjunction with similar requirements in Rule 15A NCAC 02B .0266, to the Division for
26		approval. These local programs shall meet or exceed the requirements in Item (3) of this
27		Rule and minimum criteria established in the model;
28	(e)	Within 15 months after the Commission's approval of the model local stormwater
29		program, the Division shall request the Commission's approval of the local stormwate
30		management programs;
31	(d)	Within 18 months after the Commission's approval of the model local stormwater
32		program, or upon the Division's first renewal of a local government's National Pollutan
33		Discharge Elimination System (NPDES) stormwater permit, whichever occurs later
34		subject local governments shall complete adoption of and implement their loca
35		stormwater management programs; and
36	(e)	Upon implementation, subject local governments shall submit annual reports to the
37		Division summarizing their activities in implementing each of the requirements in Iten

1		(3) of this Rule, including changes to nutrient loading due to implementation of Sub-Item
2		(3)(a) of this Rule.
3	(5)	RELATIONSHIP TO OTHER REQUIREMENTS. Local governments shall have the following
4		options with regard to satisfying the requirements of other rules in conjunction with this Rule:
5		(a) A local government may in its program submittal under Sub-Item (4)(b) of this Rule
6		request that the Division accept the local government's implementation of another
7		stormwater program or programs, such as NPDES municipal stormwater requirements, as
8		satisfying one or more of the requirements set forth in Item (3) of this Rule. The Division
9		will provide determination on acceptability of any such alternatives prior to requesting
10		Commission approval of local programs as required in Sub-Item (4)(c) of this Rule. The
11		local government shall include in its program submittal technical information
12		demonstrating the adequacy of the alternative requirements. Where requirements of this
13		Rule exceed those in an NPDES permit, a local government shall meet the requirements
14		of this Rule upon the first renewal of its NPDES permit.
15		(b) Local governments that are required to reduce nutrient loading from existing
16		development under Rule 15A NCAC 02B .0266 may require new development to achieve
17		load reductions in excess of those required to meet the unit area mass loading rate targets
18		described in this Rule and credit the additional reductions toward the loading goals for
19		existing developed areas.
20		
21	History Note:	Authority G. S. 143-214.1; 143-214.5; 143-214.7; 143-214.12; 143-214.21; 143-215.3(a)(1); 143-
22		215.6A; 143-215.6B; 143-215.6C; 143-282(d); 143-215.8B(b); 143B-282(c); 143B-282(d); S.L.
23		2005-190
24	15A NCAC 021	3.0266 is proposed for adoption as follows:
25		
26	15A NCAC 021	B.0266 JORDAN WATER SUPPLY NUTRIENT STRATEGY: STORMWATER
27		NT FOR EXISTING DEVELOPMENT
28	This Rule estab	lishes an adaptive approach by which municipalities and counties are to contribute to achieving the
29	_	e loading goals of the Jordan nutrient strategy by reducing or otherwise offsetting nutrient
30		om existing developed lands. It provides local governments three years to conduct feasibility studies
31		y shall propose the pace and nature of implementation actions in plans to the Division, which they
32		thin four years after the effective date of this Rule. The following is the watershed stormwater
33	strategy for exis	ting development in the Jordan watershed, as prefaced in Rule 15A NCAC 02B .0262:
34	(1)	PURPOSE. The purposes of this Rule are as follows:
35		(a) To contribute to achieving and maintaining the nonpoint source nitrogen and phosphorus
36		percentage reduction goals established for Jordan Reservoir in Rule 15A NCAC 2B .0262
37		relative to the baseline period defined in that Rule by reducing loading from existing

1		develop	ment in the Jordan watershed. Existing development is development that exists
2		as of th	e effective date of local stormwater management programs established under Rule
3		15A N	CAC 02B .0265, or development that occurs after the effective date of those
4		progran	ns but is not subject to the requirements of those programs, such as vested projects
5		and red	evelopment that does not yield a net increase in built upon area; and
6		(b) To prot	eet the water supply uses of Jordan Reservoir and of designated water supplies
7		through	out the Jordan watershed.
8	(2)	APPLICABILIT	Y. This Rule shall apply to municipalities and counties in the Jordan watershed
9		as identified in R	Rule 15A NCAC 02B .0262.
10	(3)	REQUIREMEN'	TS. All local governments subject to this Rule shall develop stormwater
11		management pro	ograms for submission to and approval by the Commission according to the
12		following minim	rum standards:
13		(a) A prog	gram for achieving sustained nutrient loading reductions from existing
14		develop	ment. This program shall meet the following criteria:
15		(i)	The long-term objective of this program shall be for a local government to
16			achieve the percentage nutrient loading reduction goals in Item (3) of Rule 15A
17			NCAC 02B .0262 relative to annual loading representative of the baseline period
18			defined in that Rule and as applied to existing development lands under the local
19			government's land use authority within each of the three subwatersheds, defined
20			in that rule, that falls within its jurisdiction. In addressing this long term
21			objective, a local government shall include estimates of, and plans for offsetting,
22			nutrient loading increases from lands developed subsequent to the baseline
23			period but prior to implementation of new development programs. Should
24			percentage reduction goals be adjusted pursuant to Section (7) of Rule 15A
25			NCAC 02B .0262, then the annual loading goals established in this Sub Section
26			shall be adjusted accordingly. A local government may seek supplemental
27			funding for implementation of load reducing activities through grant sources
28			such as the North Carolina Clean Water Management Trust Fund, the North
29			Carolina Clean Water Act Section 319 Grant Program, or other funding
30			programs for nonpoint sources;
31		(ii)	The results of a feasibility study to determine the extent to which the loading
32			goals referenced in this Rule may be achieved from existing development within
33			a local government's jurisdiction through load reducing activities. The local
34			government shall develop a proposed implementation rate and compliance
35			schedule for load reducing activities. This schedule shall provide for reasonable
36			and steady progress toward reduction goals throughout the proposed compliance
37			period;

1		(111) The program shall identify specific load-reducing practices implemented to date
2		subsequent to the baseline period and for which the local government is seeking
3		credit. It shall estimate load reductions for these practices using methods
4		provided for in Sub Item (4)(a), and their anticipated duration;
5		(iv) The program shall identify the types of activities the local government intends to
6		implement and types of existing development affected, relative proportions or a
7		prioritization of practices, and the relative magnitude of reductions it expects to
8		achieve from each. A local government may credit any nitrogen or phosphorus
9		load reductions in excess of those required by other rules in this Chapter. The
10		program shall identify the duration of anticipated loading reductions, and should
11		seek activities that provide sustained, long term reductions. Potential load-
12		reducing activities may include but would not be limited to stormwater activities
13		such as street sweeping, removal of existing built-upon area, retrofitting of
14		existing development with engineered best management practices (BMPs),
15		requiring treatment of runoff in redevelopment projects, requiring over-
16		treatment of runoff in new development projects, and adoption of fertilizer
17		management ordinances or fertilizer education programs, and wastewater
18		activities such as overtreatment at publicly owned treatment works (POTW),
19		collection system improvements, removal of illegal discharges, and connection
20		of onsite wastewater systems and discharging sand filter systems to central
21		sewer;
22		(v) The program shall identify anticipated funding mechanisms or sources and
23		discuss steps taken or planned to secure such funding; and
24		(vi) A municipality shall have the option of working with the county or counties in
25		which it falls, or with another municipality or municipalities within the same
26		subwatershed, to jointly meet the loading targets from all lands within their
27		combined jurisdictions within a subwatershed.
28		(b) A program to ensure maintenance of load reductions achieved as a result of the
29		provisions in Sub-Item (3)(a) of this Rule for the life of the development;
30		(c) A public education program to inform citizens, business, and industry of how to reduce
31		nutrient pollution, including education on home fertilization practices;
32		(d) A mapping program that includes major components of the municipal separate storm
33		sewer system, waters of the State, land use types, and location of sanitary sewers; and
34		(e) A program to identify and remove illegal discharges.
35	(4)	RULE IMPLEMENTATION. This Rule shall be implemented as follows:
36		(a) Within 12 months after the effective date of this Rule, the Division shall submit a model
37		local stormwater program, in conjunction with similar requirements in Rule 15A NCAC

1		02B .0265, that embodies the criteria described in Item (3) of this Rule, including
2		methods to quantify loading reduction requirements and loading reductions from various
3		activities, to the Commission for approval. The Division shall work in cooperation with
4		subject local governments and other watershed interests in developing this model
5		program;
6	(b)	Within six months after the Commission's approval of the model local stormwater
7		program, subject local governments shall submit stormwater management programs, in
8		conjunction with similar requirements in Rule 15A NCAC 02B .0265, to the Division for
9		approval. Except for the requirements in Sub-Item (3)(a) of this Rule, local programs
10		shall address and meet or exceed the requirements in Item (3) of this Rule and ensuing
11		minimum criteria established in the model;
12	(c)	Within 15 months of the Commission's approval of the model local stormwater program,
13		the Division shall request the Commission's approval of the local stormwater
14		management programs addressing the requirements of Item 3 except those in Sub-Item
15		(3)(a);
16	(d)	Within 18 months of the Commission's approval of the model local stormwater program,
17		or upon the Division's first renewal of a local government's NPDES stormwater permit,
18		whichever occurs later, subject local governments shall complete adoption of and begin
19		implementation of local stormwater management programs addressing the requirements
20		of Item 3 except those in Sub Item (3)(a); and
21	(e)	Within 36 months after the effective date of this Rule, subject local governments shall
22		submit loading reduction programs addressing Sub-Item (3)(a) of this Rule, including the
23		following regarding Sub-Item (3)(a)(i) of this Rule:
24		(i) The results of feasibility studies that determine the extent to which the loading
25		goals referenced in this Rule may be achieved from existing development lands
26		within their jurisdictions.
27		(ii) A proposed implementation schedule for load reduction projects.
28	(f)	Within 46 months of the effective date of this Rule, the Division shall request the
29		Commission's approval of local load reduction programs submitted under Sub-Item
30		(4)(e) of this Rule. The Commission shall either approve the programs or require
31		changes. Should the Commission require changes, the Division shall address those
32		changes and seek Commission approval at the earliest feasible date subsequent to the
33		original request.
34	(g)	Within 48 months of the effective date of this Rule, or within two months following
35		Commission approval of a program, whichever is later, subject local governments shall
36		complete adoption of and begin to implement local load reduction programs on the
37		timeframe established under the feasibility study.

(h)	Upon implementation, local governments shall provide annual reports to the Division
	documenting their progress in implementing the requirements of Item (3) of this Rule,
	including changes to nutrient loading due to implementation of Sub Item (3)(a) of this
	Rule.

(5) RELATIONSHIP TO OTHER REQUIREMENTS. A local government may in its program submittal under Sub-Item (4)(b) of this Rule request that the Division accept the local government's implementation of another stormwater program or programs, such as NPDES municipal stormwater requirements, as satisfying one or more of the requirements set forth in Item (3) of this Rule. The Division will provide determination on acceptability of any such alternatives prior to requesting Commission approval of local programs as required in Sub-Items (3)(a) and (3)(b) of this Rule. The local government shall include in its program submittal technical information demonstrating the adequacy of the alternative requirements. Where requirements of this Rule exceed those in a NPDES permit, a local government shall meet the requirements of this Rule upon the first renewal of its NPDES permit.

History Note: Authority G.S. 143-214.1; 143-214.7; 143-214.12; 143-214.21; 143-215.3(a)(1); 143-215.6A; 143-215.6B; 143-215.6C; 143-282(d): 143-215.8B(b): 143B-282(c): S.L. 2005-190

15A NCAC 02B .0267 is proposed for adoption as follows:

(1)

15A NCAC 02B .0267 JORDAN WATER SUPPLY NUTRIENT STRATEGY: PROTECTION OF EXISTING RIPARIAN BUFFERS

Protection of the nutrient removal and other water quality services provided by riparian buffers throughout the watershed is an important element of the overall Jordan water supply nutrient strategy. The following is the strategy for riparian buffer protection and maintenance in the Jordan watershed, as prefaced in Rule 15A NCAC 02B .0262:

PURPOSE. The purposes of this Rule shall be for the local governments listed in 15A NCAC 02B .0262, and in certain cases stated in this Rule the Division, to protect and preserve existing riparian buffers throughout the Jordan watershed as generally described in .0262, in order to maintain their nutrient removal and stream protection functions. Additionally this Rule will help protect the water supply uses of Jordan Reservoir and of designated water supplies throughout the Jordan watershed. Local programs shall be established to meet or exceed the minimum requirements of this Rule.—However, the Division shall assume responsibility for applying the requirements of this Rule to buffer activities by state and federal entities. The requirements of this Rule shall supersede all buffer requirements stated in Rules 15A NCAC 02B .0214 through .0216 as applied to WS-II, WS-III, and WS-IV waters in the Jordan watershed. Parties subject to this rule may choose to implement more stringent rules, including the one-hundred foot buffer requirement set out in Section (3)(b)(i) of Rules 15A NCAC 02B .0214 through .0216 for high-density developments.

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- (2) DEFINITIONS. For the purpose of this Rule, these terms shall be defined as follows:
 - (a) 'Access Trails' means pedestrian trails constructed of pervious or impervious surfaces and related structures to access a surface water, including boardwalks, steps, rails, signage.
 - (b) 'Archaeological Activities' means activities conducted by a Registered Professional Archaeologist (RPA).
 - 'Airport Facilities' means all properties, facilities, buildings, structures, and activities that satisfy or otherwise fall within the scope of one or more of the definition or uses of the words or phrases 'air navigation facility', 'airport', or 'airport protection privileges' under G.S. 63-1; the definition of 'aeronautical facilities' in G.S. 63-79(1); the phrase 'airport facilities' as used in G.S. 159-48(b)(1); the phrase 'aeronautical facilities' as defined in G.S. 159-81 and G.S. 159-97; and the phrase 'airport facilities and improvements' as used in Article V, Section 13, of the North Carolina Constitution, which shall include, without limitation, any and all of the following: airports, airport maintenance facilities, clear zones, drainage ditches, fields, hangars, landing lighting, airport and airport-related offices, parking facilities, related navigational and signal systems, runways, stormwater outfalls, terminals, terminal shops, and all appurtenant areas used or suitable for airport buildings or other airport facilities, and all appurtenant rights-of-way; restricted landing areas; any structures, mechanisms, lights, beacons, marks, communicating systems, or other instrumentalities or devices used or useful as an aid, or constituting an advantage or convenience to the safe taking off, navigation, and landing of aircraft, or the safe and efficient operation or maintenance of an airport or restricted landing area; easements through, or interests in, air space over land or water, interests in airport hazards outside the boundaries of airports or restricted landing areas, and other protection privileges, the acquisition or control of which is necessary to ensure safe approaches to the landing areas of airports and restricted landing areas, and the safe and efficient operation of thereof' and any combination of any or all of such facilities. Notwithstanding the foregoing, the following shall not be included in the definition of 'airport facilities':
 - (i) Satellite parking facilities;
 - (ii) Retail and commercial development outside of the terminal area, such as rental car facilities; and
 - (iii) Other secondary development, such as hotels, industrial facilities, free-standing offices and other similar buildings, so long as these facilities are not directly associated with the operation of the airport, and are not operated by a unit of government or special governmental entity such as an airport authority.

1	(d)	'Channel' means a natural water-carrying trough cut vertically into low areas of the land
2		surface by erosive action of concentrated flowing water or a ditch or canal excavated for
3		the flow of water.
4	(e)	'DBH' means diameter at breast height of a tree measured at 4.5 feet above ground
5		surface level.
6	(f)	'Ditch or canal' means a man-made channel other than a modified natural stream
7		constructed for drainage purposes that is typically dug through inter-stream divide areas.
8		A ditch or canal may have flows that are perennial, intermittent, or ephemeral and may
9		exhibit hydrological and biological characteristics similar to perennial or intermittent
10		streams.
11	(g)	'Ephemeral (stormwater) stream' means a feature that carries only stormwater in direct
12		response to precipitation with water flowing only during and shortly after large
13		precipitation events. An ephemeral stream may or may not have a well-defined channel,
14		the aquatic bed is always above the water table, and stormwater runoff is the primary
15		source of water. An ephemeral stream typically lacks the biological, hydrological, and
16		physical characteristics commonly associated with the continuous or intermittent
17		conveyance of water.
18	(h)	'Forest plantation' means an area of planted trees that may be conifers (pines) or
19		hardwoods. On a plantation, the intended crop trees are planted rather than naturally
20		regenerated from seed on the site, coppice (sprouting), or seed that is blown or carried
21		into the site.
22	(i)	'Greenway / Hiking Trails' means pedestrian trails constructed of pervious and
23		impervious surfaces and related structures including but not limited to boardwalks, steps,
24		rails, and signage, and that generally run parallel to the shoreline.
25	(j)	'High Value Tree' means a tree that meets or exceeds the following standards: for pine
26		species, 14-inch DBH or greater or 18-inch or greater stump diameter; and, for
27		hardwoods and wetland species, 16-inch DBH or greater or 24-inch or greater stump
28		diameter.
29	(k)	'Intermittent stream' means a well-defined channel that contains water for only part of
30		the year, typically during winter and spring when the aquatic bed is below the water
31		table. The flow may be heavily supplemented by stormwater runoff. An intermittent
32		stream often lacks the biological and hydrological characteristics commonly associated
33		with the conveyance of water.
34	(1)	'Modified natural stream' means an on-site channelization or relocation of a stream
35		channel and subsequent relocation of the intermittent or perennial flow as evidenced by
36		topographic alterations in the immediate watershed. A modified natural stream must

1		have the typical biological, hydrological, and physical characteristics commonly
2		associated with the continuous conveyance of water.
3	(m)	'Perennial stream' means a well-defined channel that contains water year round during a
4		year of normal rainfall with the aquatic bed located below the water table for most of the
5		year. Groundwater is the primary source of water for a perennial stream, but it also
6		carries stormwater runoff. A perennial stream exhibits the typical biological,
7		hydrological, and physical characteristics commonly associated with the continuous
8		conveyance of water.
9	(n)	'Perennial waterbody' means a natural or man-made watershed that stores surface water
10		permanently at depths sufficient to preclude growth of rooted plants, including lakes,
11		ponds, sounds, non-stream estuaries and ocean. For the purpose of the State's riparian
12		buffer protection program, the waterbody must be part of a natural drainage way (i.e.,
13		connected by surface flow to a stream).
14	(o)	'Riparian buffer enhancement' is defined as the process of converting a non-forested
15		riparian area, where woody vegetation is sparse (greater than or equal to 100 trees per
16		acre but less than 200 trees per acre) to a forested riparian buffer area. The enhanced,
17		forested riparian buffer area shall include at least two native hardwood tree species
18		planted at a density sufficient to provide 320 trees per acre at three years or 260 trees per
19		acre five years, and diffuse flow through the riparian buffer shall be maintained.
20	(p)	'Riparian buffer restoration' is defined as the process of converting a non-forested
21		riparian area, where woody vegetation is absent (less than 100 trees per acre) to a forested
22		riparian buffer area. The restored, forested riparian buffer area shall include at least two
23		native hardwood tree species planted at a density sufficient to provide 320 trees per acre
24		at three years or 260 trees per acre at five years, and diffuse flow through the riparian
25		buffer shall be maintained.
26	(q)	'Shoreline stabilization' is the in-place stabilization of an eroding shoreline. Stabilization
27		techniques which include "soft" methods or natural materials (such as root wads, or rock
28		vanes) may be considered as part of a restoration design. However, stabilization
29		techniques that consist primarily of "hard" engineering, such as concrete lined channels,
30		rip rap, or gabions, while providing bank stabilization, shall not be considered stream
31		restoration.
32	(r)	'Stream restoration' is defined as the process of converting an unstable, altered or
33		degraded stream corridor, including adjacent riparian zone and flood-prone areas to its
34		natural or referenced, stable conditions considering recent and future watershed
35		conditions. This process also includes restoring the geomorphic dimension, pattern, and
36		profile as well as biological and chemical integrity, including transport of water and
37		sediment produced by the stream's watershed in order to achieve dynamic equilibrium.

1		'Refe	erenced' or 'referenced reach' means a stable stream that is in dynamic equilibrium
2		with	its valley and contributing watershed. A reference reach can be used to develop
3		natur	al channel design criteria for stream restoration projects. 'Stream' means a body of
4		conce	entrated flowing water in a natural low area or natural channel on the land surface.
5		(s) 'Stur	np diameter' means the diameter of a tree measured at six inches above the ground
6		surfa	ce level.
7		(t) 'Surf	ace waters' means all waters of the state as defined in G.S. 143-212 except
8		unde	rground waters.
9		(u) 'Tem	porary road' means a road constructed temporarily for equipment access to build or
10		repla	ce hydraulic conveyance structures such as bridges, culverts, or pipes or water
11		deper	ndent structures, or to maintain public traffic during construction and is restored
12		withi	n six months of initial disturbance.
13		(v) 'Tree	e' means a woody plant with a DBH equal to or exceeding five inches or a stump
14		diam	eter exceeding six inches.
15	(3)	APPLICABIL	ITY. This Rule shall apply to all local governments in the Jordan watershed, as
16		described in R	tule 15A NCAC 02B .0262. Local governments shall apply the requirements of this
17		Rule through	out their jurisdictions within the Jordan watershed with the exception of state and
18		federal entitie	s. For buffer activities on lands of state and federal entities in the Jordan watershed,
19		it shall be pre	esumed that the Division shall apply the requirements of this Rule wherever local
20		governments a	are referenced unless otherwise indicated.
21	(4)	BUFFERS PR	OTECTED. All local governments subject to this Rule shall develop riparian buffer
22		protection pro	grams and ordinances for approval by the Commission, incorporating the minimum
23		standards con	tained in this Section and the remainder of this Rule. This Rule shall apply to 50-
24		foot wide ripa	rian buffers directly adjacent to surface waters in the Jordan watershed (intermittent
25		streams, perer	nnial streams, lakes, reservoirs and ponds), excluding wetlands. Wetlands adjacent
26		to surface wa	ters or within 50 feet of surface waters shall be considered as part of the riparian
27		buffer but are	regulated pursuant to 15A NCAC 2H .0506.
28		(a) A sur	face water shall be subject to this Rule if the feature is approximately shown on any
29		of the	e following references, and shall not be subject if it does not appear on any of these
30		refer	ences:
31		(i)	The most recent, complete version of the soil survey map prepared by the
32			Natural Resources Conservation Service of the United States Department of
33			Agriculture;
34		(ii)	The most recent version of the 1:24,000 scale (7.5 minute) quadrangle
35			topographic maps prepared by the United States Geologic Survey (USGS); or

1		(iii) Other more accurate mapping approved by the Commission. More accurate
2		maps approved by the Commission would replace the first two sources as the
3		standard of reference for this Rule upon their approval.
4		(b) Where the specific initiation point of an intermittent stream is in question, parties subject
5		to this rule shall use the latest version of the Division publication, Identification Methods
6		for the Origins of Intermittent and Perennial Streams, available at
7		http://h2o.enr.state.nc.us/ncwetlands/regcert.html, to establish that point.
8		(c) Riparian buffers protected by this Rule shall be measured pursuant to Item (7) of this
9		Rule.
10		(d) Parties subject to this rule shall abide by all State rules and laws regarding waters of the
11		state including but not limited to Rules 15A NCAC 2H .0500, 15A NCAC 2H .1300, and
12		Sections 401 and 404 of the Federal Water Pollution Control Act.
13		(e) A riparian buffer may be exempt from this Rule as described in Item (5) or (6) of this
14		Rule.
15	(5)	EXEMPTION BASED ON ON-SITE DETERMINATION. When a landowner or other affected
16		party believes that the maps have inaccurately depicted surface waters, he or she shall consult the
17		appropriate local government. Upon request, the local government shall make on site
18		determinations. Local governments may also accept the results of site assessments made by other
19		parties who have successfully completed a Division training course and are sanctioned by the
20		Division to make such determinations. Any disputes over on site determinations shall be referred
21		to the local Board of Adjustment or other local appeals process in writing. For state and federal
22		entities, any disputes shall be referred to the Director in writing. A determination of the Director
23		as to the accuracy or application of the maps is subject to review as provided in Articles 3 and 4 of
24		G.S. 150B. Surface waters that appear on the maps shall not be subject to this Rule if an on-site
25		determination shows that they fall into one of the following categories:
26		(a) Manmade ponds and lakes that are located outside natural drainage ways; and
27		(b) Ephemeral (stormwater) streams.
28	(6)	EXEMPTION WHEN EXISTING USES ARE PRESENT AND ONGOING. This Rule shall not
29		apply to portions of the riparian buffer where a use is existing and ongoing according to the
30		following:
31		(a) A use shall be considered existing and ongoing if it was present within the riparian buffer
32		as of the effective date of the local ordinance or local ordinances enforcing this Rule and
33		has continued to exist since that time. For state and federal entities, a use shall be
34		considered existing and ongoing if it was present within the riparian buffer as of the
35		effective date of this Rule and has continued to exist since that time. Existing uses shall
36		include agriculture, buildings, industrial facilities, commercial areas, transportation
37		facilities, maintained lawns, utility lines and on-site sanitary sewage systems any of

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which involve either specific, periodic management of vegetation or displacement of vegetation by structures or regular activity. Only the portion of the riparian buffer that contains the footprint of the existing use is exempt from this Rule. Change of ownership through purchase or inheritance is not a change of use. Activities necessary to maintain uses are allowed provided that the site remains similarly vegetated, no impervious surface is added within 50 feet of the surface water where it did not previously exist as of the effective date of the local ordinance or local ordinances enforcing this Rule, and existing diffuse flow is maintained. Grading and revegetating Zone two is allowed provided that the health of the vegetation in Zone one is not compromised, the ground is stabilized and existing diffuse flow is maintained.

- (b) A use shall be considered as existing if projects or proposed development are determined by the local government, or the Director for the cases involving state or federal entities, to meet at least one of the following criteria:
 - (i) Project requires a 401 Certification/404 Permit and these were issued prior to the effective date of the local ordinance or local ordinances enforcing this Rule, and prior to the effective date of this Rule for state and federal entities;
 - (ii) Projects that require a state permit, such as landfills, NPDES wastewater discharges, land application of residuals and road construction activities, have begun construction or are under contract to begin construction and had received all required state permits and certifications prior to the effective date of the local ordinance or ordinances this Rule, and prior to the effective date of this Rule for state and federal entities;
 - (iii) Projects that are being reviewed through the Clean Water Act Section 404/National Environmental Policy Act Merger 01 Process (published by the US Army Corps of Engineers and Federal Highway Administration, 2003) or its immediate successor and that have reached agreement with DENR on avoidance and minimization by the effective date of the local ordinance or ordinances enforcing this Rule, and prior to the effective date of this Rule for state and federal entities;
 - (iv) Projects that are not required to be reviewed by the Clean Water Act Section 404/National Environmental Policy Act Merger 01 Process (published by the US Army Corps of Engineers and Federal Highway Administration, 2003) or its immediate successor if a Finding of No Significant Impact has been issued for the project and the project has the written approval of DWQ of the local government prior to the effective date of the local ordinance or ordinances this Rule, or the written approval of the Division prior to the effective date of this Rule for state and federal entities;

1		(c)	A project	that can be documented to the local government, or to the Director for the eases
2			involving	state or federal entities, as having vested rights that were established or
3			recognize	ed for that project under the common law or by G.S. 153A-344(b), 153A-344.1,
4			160A-385	5(b) or 160A-385.1 prior to the effective date of this Rule. This Rule does not
5			confer or	restrict a vested right established or recognized under common law or G.S.
6			153A-344	4(b), 153(A)-344.1, 160A-385(b), or 160A-385.1.
7		(d)	This Rule	e shall apply at the time an existing use is changed to another use. Change of
8			use shall	involve the initiation of any activity not defined as existing and ongoing in
9			either Sul	p-Item (6)(a), (6)(b), or (6)(c) of this Rule.
10	(7)	ZONES	OF THE	RIPARIAN BUFFER. The protected riparian buffer shall have two zones as
11		follows:		
12		(a)	Zone one	shall consist of a vegetated area that is undisturbed except for uses provided for
13			in Item (9) of this Rule. The location of Zone one shall be as follows:
14			(i) 1	For intermittent and perennial streams, Zone one shall begin at the most
15			1	andward limit of the top of the bank or the rooted herbaceous vegetation and
16			(extend landward a distance of 30 feet on all sides of the surface water, measured
17			1	norizontally on a line perpendicular to a vertical line marking the edge of the top
18			(of the bank.
19			(ii) l	For ponds, lakes and reservoirs located within a natural drainage way, Zone one
20			5	shall begin at the most landward limit of the normal water level or the rooted
21			1	nerbaceous vegetation and extend landward a distance of 30 feet, measured
22			1	norizontally on a line perpendicular to a vertical line marking the edge of the
23			5	surface water or rooted herbaceous vegetation.
24		(b)	Zone two	shall consist of a stable, vegetated area that is undisturbed except for uses
25			provided	for in Item (9) of this Rule. Grading and revegetating Zone two is allowed
26			provided	that the health of the vegetation in Zone one is not compromised. Zone two
27			shall beg	in at the outer edge of Zone one and extend landward 20 feet as measured
28			horizonta	lly on a line perpendicular to the surface water. The combined width of Zones
29			one and t	wo shall be 50 feet on all sides of the surface water.
30	(8)	DIFFUS	E FLOW	REQUIREMENT. Diffuse flow of runoff shall be maintained in the riparian
31		buffer b	y dispersi	ng concentrated flow and reestablishing vegetation. Concentrated runoff from
32		new dite	hes or ma	nmade conveyances shall be converted to diffuse flow at non-erosive velocities
33		before tl	ne runoff e	enters Zone two of the riparian buffer. Corrective action to restore diffuse flow
34		shall be	taken if	necessary to impede the formation of erosion gullies. No new stormwater
35		conveya	nces are a	llowed through the buffers except for stormwater management ponds provided
36		for in Ite	em (9) of t	his Rule.

1	(9)	TABLE OF USES. The following chart sets out the uses and their designation under this Rule as
2		exempt, allowable, or allowable with mitigation. All uses not designated as exempt, allowable, or
3		allowable with mitigation are considered prohibited and may not proceed within the riparian
4		buffer unless a variance is granted pursuant to Items (12), (13), or (14) of this Rule. The
5		requirements for each category are given in Items (12), (13), and (14) of this Rule.
6		

1

			Allowable
Use	Exempt	Allowable	with
			Mitigation
Access trails: Pedestrian access trails leading to the			
surface water, docks, fishing piers, boat ramps and			
other water dependent activities:			
Pedestrian access trails that are restricted to the	X		
minimum width practicable and do not exceed 4 feet			
in width of buffer disturbance, and provided that			
installation and use does not result in removal of			
trees as defined in this Rule and no impervious			
surface is added to the riparian buffer			
Pedestrian access trails that exceed 4 feet in width of		X	
buffer disturbance, the installation or use results in			
removal of trees as defined in this Rule or			
impervious surface is added to the riparian buffer			
Access for maintenance of modified natural streams: a			
grassed travel way on one side of the water body when		X	
less impacting alternatives are not practical			
Airport facilities:			
Airport facilities that impact equal to or less than		X	
150 linear feet or one-third of an acre of riparian			
buffer			X
Airport facilities that impact greater than 150 linear			
feet or one-third of an acre of riparian buffer			
Archaeological activities	X		
Bridges		X	
Canoe Access provided that installation and use does	X		
not result in removal of trees as defined in the Rule and			
no impervious surface is added to the buffer.			

Use	Exempt	Allowable	Allowable with Mitigation
Dam maintenance activities:			
Dam maintenance activities that do not cause	X		
additional buffer disturbance beyond the footprint of			
the existing dam or those covered under the U.S.			
Army Corps of Engineers Nationwide Permit No. 3			
Dam maintenance activities that do cause additional		X	
buffer disturbance beyond the footprint of the			
existing dam or those not covered under the U.S.			
Army Corps of Engineers Nationwide Permit No.3			

			Allowable
Use	Exempt	Allowable	with
			Mitigation
Drainage ditches, roadside ditches and stormwater			
conveyances through riparian buffers:			
Existing drainage ditches, roadside ditches, and	X		
stormwater conveyances provided that they are			
managed to minimize the sediment, nutrients and			
other pollution that convey to waterbodies			
Existing roadside drainage ditches that need to be		X	
realigned provided that no additional travel lanes are			
added and the minimum required roadway typical			
section is used based on traffic and safety			
considerations.		X	
New drainage ditches, roadside ditches and			
stormwater outfalls provided that a stormwater			
management facility is installed to control nutrients			
and attenuate flow before the conveyance discharges		X	
through the riparian buffer			
New stormwater discharges to existing man-made			
conveyances (including, but not limited to, drainage			
ditches, roadside ditches, and stormwater			X
conveyances) provided that the new stormwater			
discharge does not result in the need to alter the			
existing man-made conveyances			
New stormwater discharges to existing man-made			
conveyances applicable to linear projects (including			X
but not limited to, drainage ditches, roadside			
ditches, and stormwater conveyances) for which the			
new stormwater discharges result in the need to alter			
existing man-made conveyances.			
New drainage ditches, roadside ditches and			
stormwater conveyances applicable to linear			
projects that do not provide a stormwater			
management facility due to topography constraints			
provided that other practicable BMPs have been			
employed.			

			Allowable
Use	Exempt	Allowable	with
	1		Mitigation
Drainage of a pond in a natural drainage way provided	X		8
that a new riparian buffer that meets the requirements			
of Items (7) and (8) of this Rule is established adjacent			
to the new channel.			
Driveway crossings of streams and other surface			
waters subject to this Rule:			
Driveway crossings on single family residential lots	X		
that disturb equal to or less than 25 linear feet or			
2,500 square feet of riparian buffer			
Driveway crossings on single family residential lots		X	
that disturb greater than 25 linear feet or 2,500			
square feet of riparian buffer			
In a subdivision that cumulatively disturb equal to		X	
or less than 150 linear feet or one-third of an acre of			
riparian buffer			
			X
• In a subdivision that cumulatively disturb greater than 150 linear feet or one-third of an acre of			
riparian buffer			
Fences:	v		
Fences provided that disturbance is minimized and	X		
installation does not result in removal of trees as			
defined in this Rule		37	
Fences provided that disturbance is minimized and		X	
installation results in removal of trees as defined in			
this Rule			
Forest harvesting - see Item (16) of this Rule			
Fertilizer application:			
One-time fertilizer application to establish	X		
vegetation			
Grading and revegetation in Zone two only provided	X		
that diffuse flow and the health of existing vegetation			
in Zone one is not compromised and disturbed areas			
are stabilized			

			Allowable
Use	Exempt	Allowable	with
			Mitigation
Greenway / hiking trails		X	
Historic preservation	X		
Mining activities:			
Mining activities that are covered by the Mining Act		X	
provided that new riparian buffers that meet the			
requirements of Items (7) and (8) of this Rule are			
established adjacent to the relocated channels			
Mining activities that are not covered by the Mining			X
Act OR where new riparian buffers that meet the			
requirements or Items (7) and (8) of this Rule are	X		
not established adjacent to the relocated channels			
Wastewater or mining dewatering wells with			
approved NPDES permit			
Non-electric utility lines:			
Impacts other than perpendicular crossings in Zone		X	
two only ³			
Impacts other than perpendicular crossings in Zone			X
one ³			

			Allowable
Use	Exempt	Allowable	with
			Mitigation
Non-electric utility line perpendicular crossings of			
streams and other surface waters subject to this Rule ³ :			
Perpendicular crossings that disturb equal to or less	X		
than 40 linear feet of riparian buffer with a			
maintenance corridor equal to or less than 10 feet in			
width			
Perpendicular crossings that disturb equal to or less		X	
than 40 linear feet of riparian buffer with a			
maintenance corridor greater than 10 feet in width			
Perpendicular crossings that disturb greater than 40		X	
linear feet but equal to or less than 150 linear feet of			
riparian buffer with a maintenance corridor equal to			
or less than 10 feet in width			
Perpendicular crossings that disturb greater than 40			X
linear feet but equal to or less than 150 linear feet of			
riparian buffer with a maintenance corridor greater			
than 10 feet in width			
Perpendicular crossings that disturb greater than 150			X
linear feet of riparian buffer			
Overhead electric utility lines:			
Impacts other than perpendicular crossings in Zone	X		
two only ³			
Impacts other than perpendicular crossings in Zone	X		
one ^{1,2,3}			
Overhead electric utility line perpendicular crossings			
of streams and other surface waters subject to this			
Rule ³ :			
Perpendicular crossings that disturb equal to or less	X		
than 150 linear feet of riparian buffer ¹			
Perpendicular crossings that disturb greater than 150			
linear feet of riparian buffer 1,2		X	

Use	Exempt	Allowable	Allowable with Mitigation
Playground equipment:			
Playground equipment on single family lots	X		
provided that installation and use does not result in			
removal of vegetation			
Playground equipment installed on lands other than		X	
single-family lots or that requires removal of			
vegetation			
Ponds in natural drainage ways, excluding dry ponds:			
New ponds provided that a riparian buffer that meets		X	
the requirements of Items (7) and (8) of this Rule is			
established adjacent to the pond			
New ponds where a riparian buffer that meets the			X
requirements of Items (7) and (8) of this Rule is			
NOT established adjacent to the pond			
Protection of existing structures, facilities and stream		X	
banks when this requires additional disturbance of the			
riparian buffer or the stream channel			
Railroad impacts other than crossings of streams and			X
other surface waters subject to this Rule.			
Railroad crossings of streams and other surface waters			
subject to this Rule:			
Railroad crossings that impact equal to or less than	X		
40 linear feet of riparian buffer			
Railroad crossings that impact greater than 40 linear		X	
feet but equal to or less than 150 linear feet or one-			
third of an acre of riparian buffer			
Railroad crossings that impact greater than 150			X
linear feet or one-third of an acre of riparian buffer			

Recreational and accessory structures such as decks, gazebos and sheds in Zone two, provided they are not prohibited under local water supply ordinance: Total footprint less than or equal to 150 square feet per lot Total footprint of more than 150 square feet per lot Total footprint of more than 150 square feet per lot Total footprint of more than 150 square feet per lot Removal of previous fill or debris provided that diffuse flow is maintained and vegetation is restored Road impacts other than crossings of streams and other surface waters subject to this Rule Road crossings of streams and other surface waters subject to this Rule: Road crossings that impact equal to or less than 40 linear feet of riparian buffer Road crossings that impact greater than 40 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: I.ess than or equal to 2,500 square feet of buffer impact Greater than 2,500 square feet of buffer impact Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone too ene Scientific studies and stream gauging X				Allowable
Recreational and accessory structures such as decks, gazebos and sheds in Zone two, provided they are not prohibited under local water supply ordinance: • Total footprint less than or equal to 150 square feet per lot • Total footprint of more than 150 square feet per lot • Total footprint of more than 150 square feet per lot Removal of previous fill or debris provided that diffuse flow is maintained and vegetation is restored Road impacts other than crossings of streams and other surface waters subject to this Rule Road crossings of streams and other surface waters subject to this Rule: • Road crossings that impact equal to or less than 40 linear feet of riparian buffer • Road crossings that impact greater than 40 linear feet but equal to or less than 150 linear feet or one-third of an acre of riparian buffer • Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer • Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer • Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer • Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer • Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: • Less than or equal to 2,500 square feet of buffer impact Stormwater BMPs: • Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one • Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging	Use	Exempt	Allowable	with
gazebos and sheds in Zone two, provided they are not prohibited under local water supply ordinance: • Total footprint less than or equal to 150 square feet per lot • Total footprint of more than 150 square feet per lot Removal of previous fill or debris provided that diffuse flow is maintained and vegetation is restored Road impacts other than crossings of streams and other surface waters subject to this Rule Road crossings of streams and other surface waters subject to this Rule: • Road crossings that impact equal to or less than 40 linear feet of riparian buffer • Road crossings that impact greater than 40 linear feet but equal to or less than 150 linear feet or one-third of an acre of riparian buffer • Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer • Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: • Less than or equal to 2,500 square feet of buffer impact • Greater than 2,500 square feet of buffer impact Stormwater BMPs: • Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one • Wet detention, bioretention, and constructed wetlands in Zone one • Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X				Mitigation
prohibited under local water supply ordinance: • Total footprint less than or equal to 150 square feet per lot • Total footprint of more than 150 square feet per lot Removal of previous fill or debris provided that diffuse flow is maintained and vegetation is restored Road impacts other than crossings of streams and other surface waters subject to this Rule Road crossings of streams and other surface waters subject to this Rule: • Road crossings that impact equal to or less than 40 linear feet of riparian buffer • Road crossings that impact greater than 40 linear feet but equal to or less than 150 linear feet or one-third of an acre of riparian buffer • Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer • Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: • Less than or equal to 2,500 square feet of buffer impact • Greater than 2,500 square feet of buffer impact Stormwater BMPs: • Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one • Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	Recreational and accessory structures such as decks,			
Total footprint less than or equal to 150 square feet per lot Total footprint of more than 150 square feet per lot Removal of previous fill or debris provided that diffuse flow is maintained and vegetation is restored Road impacts other than crossings of streams and other surface waters subject to this Rule Road crossings of streams and other surface waters subject to this Rule: Road crossings that impact equal to or less than 40 linear feet of riparian buffer Road crossings that impact greater than 40 linear feet but equal to or less than 150 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: Less than or equal to 2,500 square feet of buffer impact Greater than 2,500 square feet of buffer impact Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	gazebos and sheds in Zone two, provided they are not			
Per lot Total footprint of more than 150 square feet per lot Removal of previous fill or debris provided that diffuse flow is maintained and vegetation is restored Road impacts other than crossings of streams and other surface waters subject to this Rule Road crossings of streams and other surface waters subject to this Rule Road crossings that impact equal to or less than 40 linear feet of riparian buffer Road crossings that impact greater than 40 linear feet but equal to or less than 150 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: Less than or equal to 2,500 square feet of buffer impact Greater than 2,500 square feet of buffer impact Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	prohibited under local water supply ordinance:			
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flow is maintained and vegetation is restored Road impacts other than crossings of streams and other surface waters subject to this Rule Road crossings of streams and other surface waters subject to this Rule: • Road crossings that impact equal to or less than 40	Total footprint of more than 150 square feet per lot			X
Road impacts other than crossings of streams and other surface waters subject to this Rule Road crossings of streams and other surface waters subject to this Rule: Road crossings that impact equal to or less than 40 linear feet of riparian buffer Road crossings that impact greater than 40 linear feet but equal to or less than 150 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: Less than or equal to 2,500 square feet of buffer impact Greater than 2,500 square feet of buffer impact Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	Removal of previous fill or debris provided that diffuse	X		
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Road crossings of streams and other surface waters subject to this Rule: Road crossings that impact equal to or less than 40 linear feet of riparian buffer Road crossings that impact greater than 40 linear feet but equal to or less than 150 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer X Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: Less than or equal to 2,500 square feet of buffer impact Greater than 2,500 square feet of buffer impact X Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	Road impacts other than crossings of streams and other			X
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Road crossings that impact equal to or less than 40 linear feet of riparian buffer Road crossings that impact greater than 40 linear feet but equal to or less than 150 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: Less than or equal to 2,500 square feet of buffer impact Greater than 2,500 square feet of buffer impact X Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	Road crossings of streams and other surface waters			
Ilinear feet of riparian buffer Road crossings that impact greater than 40 linear feet but equal to or less than 150 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: Less than or equal to 2,500 square feet of buffer impact Greater than 2,500 square feet of buffer impact Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	subject to this Rule:			
Road crossings that impact greater than 40 linear feet but equal to or less than 150 linear feet or one-third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: Less than or equal to 2,500 square feet of buffer impact Greater than 2,500 square feet of buffer impact X Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	Road crossings that impact equal to or less than 40	X		
feet but equal to or less than 150 linear feet or one- third of an acre of riparian buffer • Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: • Less than or equal to 2,500 square feet of buffer impact • Greater than 2,500 square feet of buffer impact Stormwater BMPs: • Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one • Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	linear feet of riparian buffer			
third of an acre of riparian buffer Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: Less than or equal to 2,500 square feet of buffer impact Greater than 2,500 square feet of buffer impact X Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	Road crossings that impact greater than 40 linear		X	
Road crossings that impact greater than 150 linear feet or one-third of an acre of riparian buffer Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: Less than or equal to 2,500 square feet of buffer impact Greater than 2,500 square feet of buffer impact X Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	feet but equal to or less than 150 linear feet or one-			
feet or one-third of an acre of riparian buffer Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: • Less than or equal to 2,500 square feet of buffer impact • Greater than 2,500 square feet of buffer impact Stormwater BMPs: • Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one • Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	third of an acre of riparian buffer			
Road relocation: Relocation of existing private access roads associated with public road projects where necessary for public safety: • Less than or equal to 2,500 square feet of buffer impact • Greater than 2,500 square feet of buffer impact Stormwater BMPs: • Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one • Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	Road crossings that impact greater than 150 linear			
roads associated with public road projects where necessary for public safety: • Less than or equal to 2,500 square feet of buffer impact • Greater than 2,500 square feet of buffer impact Stormwater BMPs: • Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one • Wet detention, bioretention, and constructed wetlands in Zone one • Scientific studies and stream gauging X	feet or one-third of an acre of riparian buffer			X
necessary for public safety: • Less than or equal to 2,500 square feet of buffer impact • Greater than 2,500 square feet of buffer impact Stormwater BMPs: • Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one • Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	Road relocation: Relocation of existing private access			
 Less than or equal to 2,500 square feet of buffer impact Greater than 2,500 square feet of buffer impact Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging 	roads associated with public road projects where			
impact • Greater than 2,500 square feet of buffer impact Stormwater BMPs: • Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one • Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	necessary for public safety:			
 Greater than 2,500 square feet of buffer impact Stormwater BMPs: Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging 	• Less than or equal to 2,500 square feet of buffer		X	
Stormwater BMPs: • Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one • Wet detention, bioretention, and constructed X wetlands in Zone one Scientific studies and stream gauging X	impact			
Wet detention, bioretention, and constructed wetlands in Zone two if diffuse flow of discharge is provided into Zone one Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	• Greater than 2,500 square feet of buffer impact			X
wetlands in Zone two if diffuse flow of discharge is provided into Zone one • Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	Stormwater BMPs:			
provided into Zone one • Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	Wet detention, bioretention, and constructed			
Wet detention, bioretention, and constructed wetlands in Zone one Scientific studies and stream gauging X	wetlands in Zone two if diffuse flow of discharge is		X	
wetlands in Zone one Scientific studies and stream gauging X	provided into Zone one			
Scientific studies and stream gauging X	Wet detention, bioretention, and constructed			X
	wetlands in Zone one			
	Scientific studies and stream gauging	X		
Streambank stabilization X	Streambank stabilization		X	

			Allowable
Use	Exempt	Allowable	with
			Mitigation
Temporary roads, provided that restoration activities,			
such as soil stabilization and revegetation, occur			
immediately after construction:			
• Less than or equal to 2,500 square feet of buffer	X		
disturbance			
Greater than 2,500 square feet of buffer disturbance		X	
Associated with linear projects		X	
Temporary sediment and erosion control devices:			
In Zone two only provided that the vegetation in	X		
Zone one is not compromised and that discharge is			
released as diffuse flow in accordance with Item (5)			
of this Rule			
In Zones one and two to control impacts associated		X	
with uses approved by the local government by			
DWQ or that have received a variance provided that			
sediment and erosion control for upland areas is			
addressed to the maximum extent practical outside			
the buffer	X		
In-stream temporary erosion and sediment control			
measures for authorized work within a stream			
channel			
Underground electric utility lines:			
Impacts other than perpendicular crossings in Zone	X		
two only			
Impacts other than perpendicular crossings in Zone	X		
one ⁴			
Underground electric utility line perpendicular			
crossings of streams and other surface waters subject			
to this Rule:			
Perpendicular crossings that disturb less than or	X		
equal to 40 linear feet of riparian buffer ^{3, 4}			
Perpendicular crossings that disturb greater than 40			
linear feet of riparian buffer ^{3, 4}		X	

			Allowable
Use	Exempt	Allowable	with
			Mitigation
Vegetation management:			
Emergency fire control measures provided that	X		
topography is restored			
Mowing and harvesting of plant products in Zone	X		
two only			
Planting vegetation to enhance the riparian buffer	X		
Pruning forest vegetation provided that the health	X		
and function of the forest vegetation is not			
compromised			
Removal of individual trees which are in danger of	X		
causing damage to dwellings, other structures or			
human life			
Removal of individual trees which are dead,	X		
diseased or damaged.			
Removal of poison ivy	X		
Removal of understory nuisance vegetation as	X		
defined in:			
Smith, Cherri L. 1998. Exotic Plant Guidelines.			
Dept. of Environment and Natural Resources. Division			
of Parks and Recreation. Raleigh, NC. Guideline #30			
Vehicle access roads and boat ramps leading to the			
surface water, docks, fishing piers, and other water			
dependent activities:			
Vehicular access roads and boat ramps to the surface		X	
water but not crossing the surface water that are			
restricted to the minimum width practicable not to			
exceed 10 feet in width			X
Vehicular access roads and boat ramps to the surface			
water but not crossing the surface water that are			
restricted to the minimum width practicable and			
exceed 10 feet in width			

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6 7

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^{1 2}

¹ Provided that, in Zone one, all of the following BMPs for overhead utility lines are used. If all of these BMPs are not used, then the overhead utility lines shall require a no practical alternative evaluation by the local government, or the Director for the cases involving state or federal entities, as defined in Item (11) of this Rule.

A minimum zone of 10 feet wide immediately adjacent to the water body shall be managed such that only vegetation that poses a hazard or has the potential to grow tall enough to interfere with the line is removed.

1		 Woody vegetation shall be cleared by hand. No land grubbing or grading is allowed.
2		• Vegetative root systems shall be left intact to maintain the integrity of the soil. Stumps shall
3		remain where trees are cut.
4		 Riprap shall not be used unless it is necessary to stabilize a tower.
5		• No fertilizer shall be used other than a one-time application to re-establish vegetation.
6		• Construction activities shall minimize the removal of woody vegetation, the extent of the
7		disturbed area, and the time in which areas remain in a disturbed state.
8		• Active measures shall be taken after construction and during routine maintenance to ensure
9		diffuse flow of stormwater through the buffer.
10		• In wetlands, mats shall be utilized to minimize soil disturbance.
11		² Provided that poles or towers shall not be installed within 10 feet of a water body unless the
12		local government, or the Director for the cases involving state or federal entities, completes a no
13		practical alternative evaluation as defined in Item (11) of this Rule.
14		³ Perpendicular crossings are those that intersect the surface water at an angle between 75° and
15		105°.
16		⁴ Provided that, in Zone one, all of the following BMPs for underground utility lines are used. If
17		all of these BMPs are not used, then the underground utility line shall require a no practical
18		alternative evaluation by the local government, or the Director for the cases involving state or
19		federal entities, as defined in Item (11) of this Rule.
20		 Woody vegetation shall be cleared by hand. No land grubbing or grading is allowed.
21		• Vegetative root systems shall be left intact to maintain the integrity of the soil. Stumps shall
22		remain, except in the trench, where trees are cut.
23		 Underground cables shall be installed by vibratory plow or trenching.
24		• The trench shall be backfilled with the excavated soil material immediately following cable
25		installation.
26		• No fertilizer shall be used other than a one-time application to re-establish vegetation.
27		• Construction activities shall minimize the removal of woody vegetation, the extent of the
28		disturbed area, and the time in which areas remain in a disturbed state.
29		• Active measures shall be taken after construction and during routine maintenance to ensure
30		diffuse flow of stormwater through the buffer.
31		• In wetlands, mats shall be utilized to minimize soil disturbance.
32	(10)	REQUIREMENTS FOR CATEGORIES OF USES. Uses designated as exempt, allowable, and
33		allowable with mitigation in Item (9) of this Rule shall have the following requirements:
34		(a) EXEMPT. Uses designated as exempt are allowed within the riparian buffer. Exempt
35		uses shall be designed, constructed and maintained to minimize soil disturbance and to
36		provide the maximum water quality protection practicable, including construction,

1			monitoring, and maintenance activities,. In addition, exempt uses shall meet
2			requirements listed in Item (9) of this Rule for the specific use.
3		(b)	ALLOWABLE. Uses designated as allowable may proceed within the riparian buffer
4			provided that there are no practical alternatives to the requested use pursuant to Item (11)
5			of this Rule. This includes construction, monitoring, and maintenance activities. These
6			uses require written authorization from local government, or the Director for the eases
7			involving state or federal entities.
8		(c)	ALLOWABLE WITH MITIGATION. Uses designated as allowable with mitigation
9			may proceed within the riparian buffer provided that there are no practical alternatives to
10			the requested use pursuant to Item (11) of this Rule and an appropriate mitigation strategy
11			has been approved pursuant to Item (15) of this Rule. These uses require written
12			authorization from the local government, or the Director for the cases involving state or
13			federal entities,
14	(11)	DETER	RMINATION OF "NO PRACTICAL ALTERNATIVES." Persons who wish to undertake
15		uses de	signated as allowable or allowable with mitigation shall submit a request for a "no practical
16		alternat	tives" determination to the local government, or the Director for the cases involving state or
17		federal	entities,. The applicant shall certify that the criteria identified in Sub-Item (11)(a) of this
18		Rule an	re met. The local government, or the Director for the cases involving state or federal
19		entities	s, shall grant an Authorization Certificate upon a "no practical alternatives" determination.
20		The pro	ocedure for making an Authorization Certificate shall be as follows:
21		(a)	For any request for an Authorization Certificate, local government, or the Director for the
22			eases involving state or federal entities, shall review the entire project and make a finding
23			of fact as to whether the following requirements have been met in support of a "no
24			practical alternatives" determination:
25			(i) The basic project purpose cannot be practically accomplished in a manner that
26			would better minimize disturbance, preserve aquatic life and habitat, and protect
27			water quality;
28			(ii) The use cannot practically be reduced in size or density, reconfigured or
29			redesigned to better minimize disturbance, preserve aquatic life and habitat, and
30			protect water quality; and
31			(iii) Best management practices shall be used if necessary to minimize disturbance,
32			preserve aquatic life and habitat, and protect water quality.
33		(b)	Requests for an Authorization Certificate shall be reviewed and either approved or denied
34			within 60 days of receipt of a complete submission based on the criteria in Sub-Item
35			(11)(a) of this Rule and the local ordinance or ordinances enforcing this Rule by the local
36			government, or the Director for the cases involving state or federal entities. Failure to
37			issue an approval or denial within 60 days shall constitute that the applicant has

1			demons	trated "no practical alternatives." An Authorization Certificate shall be issued to
2			the appl	icant, unless:
3			(i)	The applicant agrees, in writing, to a longer period; and
4			(ii)	Applicant fails to furnish requested information necessary to the local
5				government's decision or the Director's decision for the cases involving state or
6				federal entities.
7		(c)	The loe	al government, or the Director for the cases involving state or federal entities,
8			may atta	ach conditions to the Authorization Certificate that support the purpose, spirit and
9			intent o	f the riparian buffer protection program. Complete submissions shall include the
10			followir	ng:
11			(i)	The name, address and phone number of the applicant;
12			(ii)	The nature of the activity to be conducted by the applicant;
13			(iii)	The location of the activity, including the jurisdiction;
14			(iv)	A map of sufficient detail to accurately delineate the boundaries of the land to be
15				utilized in carrying out the activity, the location and dimensions of any
16				disturbance in riparian buffers associated with the activity, and the extent of
17				riparian buffers on the land;
18			(v)	An explanation of why this plan for the activity cannot be practically
19				accomplished, reduced or reconfigured to better minimize disturbance to the
20				riparian buffer, preserve aquatic life and habitat and protect water quality; and
21			(vi)	Plans for any best management practices proposed to be used to control the
22				impacts associated with the activity.
23		(d)	Any dis	putes over determinations regarding Authorization Certificates shall be referred to
24			the Dire	ector's local government's appeals process for a decision, or to the Director for
25			determi	nations involving lands of state and federal entities. The Director's decision is
26			subject	to review as provided in G.S. 150B Articles 3 and 4.
27	(12)	VARIA	NCES. 1	Persons who wish to undertake prohibited uses may pursue a variance. The local
28		governi	nent may	only grant minor variances. For major variances, local governments shall
29		prepare	prelimin	ary findings and submit them to the Commission for approval. The variance
30		request	procedur	e shall be as follows:
31		(a)	There a	re practical difficulties or unnecessary hardships that prevent compliance with the
32			riparian	buffer protection requirements. Practical difficulties or unnecessary hardships
33			shall be	evaluated in accordance with the following:
34			(i)	If the applicant complies with the provisions of this Rule, he/she can secure no
35				reasonable return from, nor make reasonable use of, his/her property. Merely
36				proving that the variance would permit a greater profit from the property shall
37				not be considered adequate justification for a variance. Moreover, the local

1			government, or the Director for the cases involving state or federal entities, shall
2			consider whether the variance is the minimum possible deviation from the terms
3			of this Rule that shall make reasonable use of the property possible.
4		(ii)	The hardship results from application of this Rule to the property rather than
5			from other factors such as deed restrictions or other hardship.
6		(iii)	The hardship is due to the physical nature of the applicant's property, such as its
7			size, shape, or topography, which is different from that of neighboring property.
8		(iv)	The applicant did not cause the hardship by knowingly or unknowingly violating
9			this Rule.
10		(v)	The applicant did not purchase the property after the effective date of this Rule,
11			and then request a variance.
12		(vi)	The hardship is unique to the applicant's property, rather than the result of
13			conditions that are widespread. If other properties are equally subject to the
14			hardship created in the restriction, then granting a variance would be a special
15			privilege denied to others, and would not promote equal justice.
16		(b) The va	riance is in harmony with the general purpose and intent of the State's riparian
17		buffer j	protection requirements and preserves its spirit; and
18		(c) In gran	ting the variance, the public safety and welfare have been assured, water quality
19		has bee	en protected, and substantial justice has been done.
20	(13)	MINOR VARIA	ANCES. A minor variance request pertains to activities that are proposed only to
21		impact any porti	ion of Zone two of the riparian buffer. Minor variance requests shall be reviewed
22		and approved b	ased on the criteria in Sub-Item (11)(a) of this Rule by the local government
23		pursuant to G.S	. 153A-Article 18, or G.S. 160A-Article 19. The local government the Director
24		and may attach	conditions to the variance approval that support the purpose, spirit and intent of the
25		riparian buffer p	protection program. Request for appeals to decisions made by the local government
26		shall be made th	nrough the local government's Director, shall be made through the DWQ appeals
27		process, or to th	ne Director for determinations involving state and federal entities. The Director's
28		decision is subje	ect to review as provided in G.S. 150B Articles 3 and 4.
29	(14)	MAJOR VARIA	ANCES. A major variance request pertains to activities that are proposed to
30		impact any porti	on of Zone one or any portion of both Zones one and two of the riparian buffer. If
31		the local gover	nment, or the Director for the cases involving state or federal entities,, has
32		determined that	a major variance request meets the requirements in Sub-Item (9)(a) of this Rule,
33		then it shall pre	pare a preliminary finding and submit it to the Commission for approval. Within
34		90 days after re	eccipt by the local government, or the Director for the cases involving state or
35		federal entities,	the Commission shall review preliminary findings on major variance requests.
36		The following	actions shall be taken depending on the Commission's decision on the major
37		variance request	:

1		(a)	Upon	the Commission's approval, the local government the Director shall issue a final
2			decisio	on granting the major variance. The Director shall issue the final decision for the
3			cases i	nvolving state or federal entities.
4		(b)	Upon	the Commission's approval with conditions or stipulations, the local government
5			the Di	rector shall issue a final decision, which includes these conditions or stipulations.
6			The D	irector shall issue a final decision for the cases involving state or federal entities.
7		(c)	Upon 1	the Commission's denial, the local government Director shall issue a final decision
8			denyin	g the major variance. The Director shall issue a final decision for the eases
9			involvi	ing state or federal entities.
10	(15)	MITIG	ATION.	Persons who wish to undertake uses designated as allowable with mitigation shall
11		meet th	e follow	ing requirements in order to proceed with their proposed use.
12		(a)	Obtain	a determination of "no practical alternatives" to the proposed use pursuant to Item
13			(11) of	f this Rule; and
14		(b)	Obtain	approval for a mitigation proposal pursuant to 15A NCAC 02B .0268.
15	(16)	REQUI	REMEN	NTS SPECIFIC TO FOREST HARVESTING. The following requirements shall
16		apply fo	or forest	harvesting operations and practices:
17		(a)	The fo	llowing measures shall apply in the entire riparian buffer:
18			(i)	Logging decks and sawmill sites shall not be placed in the riparian buffer.
19			(ii)	Access roads and skid trails shall be prohibited except for temporary and
20				permanent stream crossings established in accordance with 15A NCAC 1I
21				.0203. Temporary stream crossings shall be permanently stabilized after any
22				site disturbing activity is completed.
23			(iii)	Timber felling shall be directed away from the stream or water body.
24			(iv)	Skidding shall be directed away from the stream or water body and shall be done
25				in a manner that minimizes soil disturbance and prevents the creation of
26				channels or ruts.
27			(v)	Individual trees may be treated to maintain or improve their health, form or
28				vigor.
29			(vi)	Harvesting of dead or infected trees or application of pesticides necessary to
30				prevent or control extensive tree pest and disease infestation shall be allowed.
31				These practices must be approved by the Division of Forest Resources for a
32				specific site pursuant to the rule. The Division of Forest Resources must notify
33				the local government of all approvals.
34			(vii)	Removal of individual trees that are in danger of causing damage to structures or
35				human life shall be allowed.

1			(viii)	Natural regeneration of forest vegetation and planting of trees, shrubs, or ground
2				cover plants to enhance the riparian buffer shall be allowed provided that soil
3				disturbance is minimized. Plantings shall consist primarily of native species.
4			(ix)	High-intensity prescribed burns shall not be allowed.
5			(x)	Application of fertilizer shall not be allowed except as necessary for permanent
6				stabilization. Broadcast application of fertilizer or herbicides to the adjacent
7				forest stand shall be conducted so that the chemicals are not applied directly to
8				or allowed to drift into the riparian buffer.
9		(b)	In Zone	e one, forest vegetation shall be protected and maintained. Selective harvest as
10			provide	d for below is allowed on forest lands that have a deferment for use value under
11			forestry	in accordance with G.S. 105-277.2 through 277.6 or on forest lands that have a
12			forest r	nanagement plan prepared or approved by a registered professional forester.
13			Copies	of either the approval of the deferment for use value under forestry or the forest
14			manage	ment plan shall be produced upon request. For such forest lands, selective
15			harvest	is allowed in accordance with the following:
16			(i)	Tracked or wheeled vehicles are not permitted except at stream crossings
17				designed, constructed and maintained in accordance with 15A NCAC 1I .0203;
18			(ii)	Soil disturbing site preparation activities are not allowed; and
19			(iii)	Trees shall be removed with the minimum disturbance to the soil and residual
20				vegetation.
21		(c)	The foll	owing provisions for selective harvesting shall be met:
22			(i)	The first 10 feet of Zone one directly adjacent to the stream or waterbody shall
23				be undisturbed except for the removal of individual high value trees as defined
24				provided that no trees with exposed primary roots visible in the streambank be
25				cut.
26			(ii)	In the outer 20 feet of Zone one, a maximum of 50 percent of the trees greater
27				than five inches DBH may be cut and removed. The reentry time for harvest
28				shall be no more frequent than every 15 years, except on forest plantations
29				where the reentry time shall be no more frequent than every five years. In either
30				case, the trees remaining after harvest shall be as evenly spaced as possible.
31			(iii)	In Zone two, harvesting and regeneration of the forest stand shall be allowed in
32				accordance with 15A NCAC 01I .0100 through .0200 as enforced by the
33				Division of Forest Resources.
34	(17)	RULE	IMPLEM	ENTATION. This Rule shall be implemented as follows:
35		(a)	For stat	e and federal entities, the Division shall implement the requirements of this Rule
36			as of its	effective date.

I		(b) Within six months of the effective date of this Rule, local governments shall submit a
2		local program including all necessary ordinances to the Division for review. The local
3		program shall detail local government buffer program implementation including but not
4		limited to such factors as a method for resolution of disputes involving Authorization
5		Certificate or variance determinations, a plan for record keeping, and a plan for
6		enforcement. Local governments shall use the latest version of the Division's
7		publication, Identification Methods for the Origins of Intermittent and Perennial Streams,
8		available at http://h2o.enr.state.ne.us/newetlands/regcert.html, to establish the existence
9		of streams.
10		(c) Within one year of the effective date of the Rule, the Division shall request Commission
11		approval.
12		(d) Within 14 months of the effective date of the Rule, local governments shall implement
13		programs to ensure that existing land use activities and proposed development complies
14		with local programs.
15		(e) Upon implementation, subject local governments shall submit annual reports to the
16		Division summarizing their activities in implementing each of the requirements in Item
17		(4) of this Rule.
18		(f) If a local government fails to adopt or adequately implement its program as called for in
19		this Rule, the Division may take appropriate enforcement action as authorized by statute,
20		and may choose to assume responsibility for implementing that program until such time
21		as it determines that the local government is prepared to comply with its responsibilities.
22	(18)	OTHER LAWS, REGULATIONS AND PERMITS. In all cases, compliance with this Rule does
23		not preclude the requirement to comply with all federal, state and local regulations and laws.
24		
25	History Note:	Authority 143-214.1; 143-214.5; 143-214.7; 143-215.3(a)(1); 143-215.6A; 143-215.6B; 143-
26		215.6C; 143-215.8B(b); 143B-282(c); 143B-282(d) S.L. 1999-329, s. 7.1.; S.L. 2005-190
27	15A NCAC 02	B .0268 is proposed for adoption as follows:
28		
29	15A NCAC 02	B.0268 JORDAN WATER SUPPLY NUTRIENT STRATEGY: MITIGATION FOR
30	RIPARIAN BU	UFFERS
31	The following a	are requirements for the Riparian Buffer Mitigation Program for the Jordan watershed, as prefaced in
32	Rule 15A NCA	C 02B .0262:
33		PURPOSE. The purpose of this Rule is to set forth the mitigation requirements that apply to the
34		riparian buffer protection program in the Jordan Lake Watershed , as described in Rule 15A
35		NCAC 2B .0259, and whose surface waters are described in the Schedule of Classifications, 15A
36		NCAC 2B .0316.

1		The p	urposes o	f this Rule shall be to set forth the mitigation requirements that the local
2		gover	nments lis	sted in 15A NCAC 02B .0262, and in certain cases stated in this Rule the Division,
3		apply	to the rip	arian buffer protection program in the Jordan watershed, as described in Rule 15A
4		NCA(C 02B .02	67, and whose surface waters are described in the Schedule of Classifications, 15A
5		NCA(C 02B .03	11. Additionally this Rule will help to protect the water supply uses of Jordan
6		Reser	voir and c	of designated water supplies throughout the Jordan watershed. Local programs
7		shall t	e establis	shed to meet or exceed the minimum requirements of this Rule. However, the
8		Divisi	on shall a	ssume responsibility for applying the requirements of this Rule to buffer activities
9		state a	nd federa	l entities. For buffer activities on state and federal entities in the Jordan watershed,
10		it shal	l be presu	med that the Division shall apply the requirements of this Rule wherever local
11		gover	nments ar	e referenced unless otherwise indicated. The requirements of this Rule shall
12		supers	ede all bu	affer requirements stated in Rules 15A NCAC 02B .0214 through .0216 as applied
13		to WS	-II, WS-I	II, and WS-IV waters in the Jordan watershed. Local governments may choose to
14		imple	ment mor	e stringent rules, including the one-hundred foot buffer requirement set out in
15		Sectio	n (3)(b)(i) of Rules 15A NCAC 02B .0214 through .0216 for high-density developments.
16				
17	(1)	APPL	ICABILI'	TY. This Rule applies to persons who wish to impact a riparian buffer in the
18		Jordar	n watersh	ed when one of the following applies:
19		(a)	A pers	on has received an Authorization Certificate pursuant to 15A NCAC 02B .0267 for
20			a prop	osed use that is designated as "allowable with mitigation."
21		(b)	A pers	son has received a variance pursuant to 15A NCAC 02B .0267 and is required to
22			perform	m mitigation as a condition of a variance approval.
23	(2)	THE .	AREA O	F MITIGATION. The local government, or the Director for the cases involving
24		state (or federal	entities, shall determine the required area of mitigation, which shall apply to all
25		mitiga	tion optic	ons identified in Sub-Item (6) of this Rule, according to the following:
26		(a)	The in	npacts in square feet to each zone of the riparian buffer shall be determined by the
27			local g	government, or the Director for the cases involving state or federal entities, by
28			adding	the following:
29			(i)	The area of the footprint of the use causing the impact to the riparian buffer;
30			(ii)	The area of the boundary of any clearing and grading activities within the
31				riparian buffer necessary to accommodate the use; and
32			(iii)	The area of any ongoing maintenance corridors within the riparian buffer
33				associated with the use.
34		(b)	The re	quired area of mitigation shall be determined by applying the following multipliers
35			to the	impacts determined in Sub-item (3)(a) of this Rule to each zone of the riparian
36			buffer	
37			(i)	Impacts to Zone one of the riparian buffer shall be multiplied by three;

1		(ii)	Impacts to Zone two of the riparian buffer shall be multiplied by one and one-
2			half; and
3		(iii)	Impacts to wetlands within Zones one and two of the riparian buffer that are
4			subject to mitigation under 15A NCAC 2H .0506 shall comply with the
5			mitigation ratios in 15A NCAC 2H .0506.
6	(3)	THE LOCAT	TION OF MITIGATION. The mitigation effort shall be located the same distance
7		from the Jord	an Reservoir as the proposed impact, or closer to the Reservoir than the impact, and
8		as close to the	e location of the impact as feasible.
9	(4)	ISSUANCE (OF THE MITIGATION DETERMINATION. The local government, or the Director
10		for the cases	s involving state or federal entities, shall issue a mitigation determination that
11		specifies the	required area and location of mitigation pursuant to Items (3) and (4) of this Rule.
12	(5)	OPTIONS I	FOR MEETING THE MITIGATION DETERMINATION. The mitigation
13		determination	n made pursuant to Item (5) of this Rule may be met through one of the following
14		options:	
15		(a) Payr	ment of a compensatory mitigation fee to the Riparian Buffer Restoration Fund
16		purs	uant to 15A NCAC 02B .0272;
17		(b) Don	ation of real property or of an interest in real property pursuant to Item (7) of this
18		Rule	e; and
19		(c) Rest	oration or enhancement of a non-forested riparian buffer. This shall be accomplished
20		by th	ne applicant after submittal and approval of a restoration plan pursuant to Item (8) of
21		this	Rule.
22	(6)	DONATION	OF PROPERTY. Persons who choose to satisfy their mitigation determination by
23		donating real	property or an interest in real property shall meet the following requirements:
24		(a) The	donation of real property interests may be used to either partially or fully satisfy the
25		payr	nent of a compensatory mitigation fee to the Riparian Buffer Restoration Fund
26		purs	uant to 15A NCAC 02B .0272. The value of the property interest shall be
27		dete	rmined by an appraisal performed in accordance with Sub-item (7)(d)(iv) of this
28		Rule	e. The donation shall satisfy the mitigation determination if the appraised value of the
29		dona	ated property interest is equal to or greater than the required fee. If the appraised
30		valu	e of the donated property interest is less than the required fee calculated pursuant to
31		15A	NCAC 02B .0272, the applicant shall pay the remaining balance due.
32		(b) The	donation of conservation easements to satisfy compensatory mitigation requirements
33		shall	be accepted only if the conservation easement is granted in perpetuity.
34		(c) Don	ation of real property interests to satisfy the mitigation determination shall be
35		acce	pted only if such property meets all of the following requirements:
36		(i)	The property shall be located within an area that is identified as a priority for
37			restoration in, or is otherwise consistent with the goals of, the Basinwide

1			Wetlands and Riparian Restoration Plan for the Cape Fear River Basin
2			developed by the Department pursuant to G.S. 143-214.10.
3		(ii)	The property shall contain riparian buffers not currently protected by the State's
4			riparian buffer protection program that are in need of restoration. Buffers not in
5			compliance with 15A NCAC 02B .0267 are in need of restoration.
6		(iii)	The restorable riparian buffer on the property shall have a minimum length of
7			1000 linear feet along a surface water and a minimum width of 50 feet as
8			measured horizontally on a line perpendicular to the surface water.
9		(iv)	The size of the restorable riparian buffer on the property to be donated shall
10			equal or exceed the acreage of riparian buffer required to be mitigated under the
11			mitigation responsibility determined pursuant to Item (3) of this Rule.
12		(v)	The property shall not require excessive measures for successful restoration,
13			such as removal of structures or infrastructure. Restoration of the property shall
14			be capable of fully offsetting the adverse impacts of the requested use.
15		(vi)	The property shall be suitable to be successfully restored, based on existing
16			hydrology, soils, and vegetation.
17		(vii)	The estimated cost of restoring and maintaining the property shall not exceed the
18			value of the property minus site identification and land acquisition costs.
19		(viii)	The property shall not contain any building, structure, object, site, or district that
20			is listed in the National Register of Historic Places established pursuant to
21			Public Law 89-665, 16 U.S.C. 470 as amended.
22		(ix)	The property shall not contain any hazardous substance or solid waste.
23		(x)	The property shall not contain structures or materials that present health or
24			safety problems to the general public. If wells, septic, water or sewer
25			connections exist, they shall be filled, remediated or closed at owner's expense
26			in accordance with state and local health and safety regulations.
27		(xi)	The property and adjacent properties shall not have prior, current, and known
28			future land use that would inhibit the function of the restoration effort.
29		(xii)	The property shall not have any encumbrances or conditions on the transfer of
30			the property interests.
31	(d)	At the e	expense of the applicant or donor, the following information shall be submitted to
32		the loca	al government, or the Director for the cases involving state or federal entities,
33			y proposal for donations or dedications of interest in real property:
34		(i)	Documentation that the property meets the requirements laid out in Sub-Item
35		. ,	(8)(c) of this Rule;
36		(ii)	US Geological Survey 1:24,000 (7.5 minute) scale topographic map, county tax
37			map, USDA Natural Resource Conservation Service County Soil Survey Map,

1				and county road map showing the location of the property to be donated along
2				with information on existing site conditions, vegetation types, presence of
3				existing structures and easements;
4			(iii)	A current property survey performed in accordance with the procedures of the
5				North Carolina Department of Administration, State Property Office as
6				identified by the State Board of Registration for Professional Engineers and
7				Land Surveyors in "Standards of Practice for Land Surveying in North
8				Carolina." Copies may be obtained from the North Carolina State Board of
9				Registration for Professional Engineers and Land Surveyors, 3620 Six Forks
10				Road, Suite 300, Raleigh, North Carolina 27609;
11			(iv)	A current appraisal of the value of the property performed in accordance with
12				the procedures of the North Carolina Department of Administration, State
13				Property Office as identified by the Appraisal Board in the "Uniform Standards
14				of Professional North Carolina Appraisal Practice." Copies may be obtained
15				from the Appraisal Foundation, Publications Department, P.O. Box 96734,
16				Washington, D.C. 20090-6734; and
17			(v)	A title certificate.
18	(7)	RIPAR	IAN BU	FFER RESTORATION OR ENHANCEMENT. Persons who choose to meet
19		their m	nitigation	requirement through riparian buffer restoration or enhancement shall meet the
20		followi	ng require	ements:
21		(a)	The ap	plicant may restore or enhance a non-forested riparian buffer if either of the
22			followi	ng applies:
23			(i)	The area of riparian buffer restoration is equal to the required area of mitigation
24				determined pursuant to Item (3) of this Rule; or
25			(ii)	The area of riparian buffer enhancement is three times larger than the required
26				area of mitigation determined pursuant to Item (3) of this Rule.
27		(b)	The loc	ation of the riparian buffer restoration or enhancement shall comply with the
28			requirer	nents in Item (4) of this Rule.
29		(c)	The rip	arian buffer restoration or enhancement site shall have a minimum width of 50
30			feet as r	neasured horizontally on a line perpendicular to the surface water.
31		(d)	The ap	plicant shall first receive an Authorization Certificate for the proposed use
32			accordi	ng to the requirements of 15A NCAC 02B .0267. After receiving this
33			determi	nation, the applicant shall submit a restoration or enhancement plan for approval
34			by local	government, or the Director for the cases involving state or federal entities,. The
35			restorat	on or enhancement plan shall contain the following:
36			(i)	A map of the proposed restoration or enhancement site;

1			(ii)	A vegetation plan. The vegetation plan shall include a minimum of at least two
2				native hardwood tree species planted at a density sufficient to provide 320 trees
3				per acre at maturity;
4			(iii)	A grading plan. The site shall be graded in a manner to ensure diffuse flow
5				through the riparian buffer;
6			(iv)	A fertilization plan; and
7			(v)	A schedule for implementation.
8		(e)	Within	one year after the local government the Director has approved the restoration or
9			enhance	ement plan, the applicant shall present proof to the local government, or the
10			Director	for the cases involving state or federal entities, that the riparian buffer has been
11			restored	or enhanced. If proof is not presented within this timeframe, then the person
12			shall be	e in violation of both-the State's and the local government's riparian buffer
13			protection	on program.
14		(f)	The mit	tigation area shall be placed under a perpetual conservation easement that will
15			provide	for protection of the property's nutrient removal functions.
16		(g)	The app	licant shall submit annual reports for a period of five years after the restoration or
17			enhance	ement showing that the trees planted have survived and that diffuse flow through
18			the ripa	rian buffer has been maintained. The applicant shall replace trees that do not
19			survive	and restore diffuse flow if needed during that five-year period.
20				
21	History Note:	Authori	ity 143-21	4.1; 143-214.5; 143-214.7; 143-215.3(a)(1); 143-215.6A; 143-215.6B; 143-
22				
23	215.6C; 143B-2	82(d); 14	3-215.8B	(b); 143B-282(c); S.L. 1999-329, s. 7.1.; S.L. 2005-190
24	151 370100			
25	15A NCAC 02B	3 .0270 is	proposed	d for adoption as follows:
26				
27				AN WATER SUPPLY NUTRIENT STRATEGY: WASTEWATER
28	DISCHARGE I	_		
29	•			utant Discharge Elimination System (NPDES) wastewater discharge management
30				Reservoir Watershed to protect the water supply uses of Jordan Reservoir and of
31	-		_	out the Jordan watershed:
32	(1)		•	This Rule applies to all wastewater treatment facilities discharging in the Jordan
33				shed that receive nutrient-bearing wastewater and are required to obtain individual
34			s permits.	
35	(2)			the purposes of this Rule, the following definitions apply:
36		(a)	_	d to point source dischargers, treatment facilities, wastewater flows or discharges,
37			or like n	natters

1		(i) "Ex	sting" means that which obtained or w	as subject to a NPDES permit on or
2		bef	re December 31, 2001.	
3		(ii) "Ex	anding" means that which increases be	yond its permitted flow as defined in
4		this	Rule.	
5		(iii) "No	v" means that which had not obtained o	or was not subject to a NPDES permit
6		on	before December 31, 2001.	
7	(b)	"Delivered"	as in delivered allocation, load, or limit	t, means the allocation, load, or limit
8		that is meas	red or predicted at the Jordan Reservoir	. A delivered value is equivalent to a
9		discharge va	ue multiplied by its assigned transport f	actor.
10	(c)	"Discharge"	as in discharge allocation, load, or limit	it means the allocation, load, or limit
11		that is meas	red at the point of discharge into sur	face waters in the Jordan Reservoir
12		Watershed.	discharge value is equivalent to a del	livered value divided by its assigned
13		transport fac	or.	
14	(d)	"MGD" mea	s million gallons per day.	
15	(e)	"Allocation"	means the mass quantity, as of nitrogen	n or phosphorus, that a discharger or
16		group of dis	hargers is potentially allowed to relea	se into surface waters of the Jordan
17		Reservoir V	tershed. Allocations may be expressed	d as "delivered allocation" or as the
18		equivalent	discharge allocation." Possession of	allocation does not authorize the
19		discharge of	nutrients but is prerequisite to such auth	orization in a NPDES permit.
20	(f)	"Limit" mea	s the mass quantity, as of nitrogen or p	hosphorus, that a discharger or group
21		of discharge	s is authorized through a NPDES permi	t to release into surface waters of the
22		Jordan Rese	voir Watershed. Limits may be expre	essed as "delivered limit" or as the
23		equivalent "	ischarge limit."	
24	(g)	"Load" mea	s the actual mass quantity, as of nitroge	en or phosphorus, that a discharger or
25		group of di	chargers releases into surface waters	of the Jordan Reservoir Watershed.
26		Loads may l	expressed as "delivered load" or as the	e equivalent "discharge load."
27	(h)	"Nutrients"	eans total nitrogen and total phosphoru	IS.
28	(i)	"Nutrient lo	d allocation" or "load allocation" means	s the aggregate allocation of nitrogen
29		or phosphor	s for all nonpoint sources in the waters	hed or any of its subwatersheds. The
30		load allocati	ns are expressed as delivered allocation	S.
31	(j)	"Nutrient w	steload allocation" or "wasteload alloca	ation" means the aggregate allocation
32		of nitrogen	phosphorus for all point source disch	argers in the watershed or any of its
33		subwatershe	s. The wasteload allocations are express	sed as delivered allocations.
34	(k)	"Permitted	ow" means the maximum monthly av	erage flow authorized in a facility's
35		NPDES per	it as of December 31, 2001, with the fo	llowing exceptions:
36				NPDES Permitted
37		Facility Own	er Facility Name	Permit Flow (MGD)

1			B. E. Jordan & Son, LLC	Saxapahaw WWTP	NC0042528	0.036
2			Durham County	Triangle WWTP	NC0026051	12.0
3			Fearrington Util., Inc.	Fearrington Util. WWTP	NC0043559	0.5
4			Greensboro, City of	T.Z. Osborne WWTP	NC0047384	40.0
5			Mervyn R. King	Countryside Manor WWTP	NC0073571	0.03
6			OWASA	Mason Farm WWTP	NC0025241	14.5
7			Pittsboro, Town of	Pittsboro WWTP	NC0020354	2.25
8			Quarterstone Farm HOA	Quarterstone Farm WWTP	NC0066966	0.2
9			Whippoorwill LLC	Carolina Meadows WWTP	NC0056413	0.35
10						
11		(1)	"Total nitrogen" or "nitrogen"	en" means the sum of the organi	c, nitrate, nitrite, a	ınd ammonia
12			forms of nitrogen as in a w	ater or wastewater.		
13		(m)	"Total phosphorus" or	"phosphorus" means the su	um of the orth	nophosphate,
14			polyphosphate, and organic	c forms of phosphorus as in a wa	ter or wastewater.	
15		(n)	"Transport factor" means	the fraction of the total nitro	gen or total phos	sphorus in a
16			discharge that is predicted	to be delivered to the reservoir.		
17	(3)	This I	tem specifies the initial nutries	nt wasteload allocations for poin	t source discharge	ers under this
18		strateg	gy.			
19		(a)	The wasteload allocation	s of nitrogen and phosphoru	is assigned to p	oint source
20			dischargers in each of the .	Jordan Reservoir subwatersheds	shall equal the loa	ading targets
21			specified in 15A NCAC 02	B .0262.		
22		(b)	The initial allocations shall	be divided as follows:		
23						

1				Subwatershed and	Delivered Al	locations (lb/yr)
2				Discharger Subcategories	Total Nitrogen	Total Phosphorus
3				Upper New Hope Arm		
4				Permitted flows ≥ 0.1 .5 MG	D 332,46	7 22,498
5				Permitted flows < 0.1 .5 MG	D 3,61	3 608
6				Lower New Hope Arm		
7				Permitted flows ≥ 0.1 .5 MG	D 6,83	6 498
8				Permitted flows < 0.1 .5 MG	D	0 0
9				Haw River Arm		
10				Permitted flows ≥ 0.1 .5 MG	D 881,75	7 104,004
11				Permitted flows < 0.1 .5 MG	D 13,37	0 1,996
12						
13		(c)	INDIV	DUAL DELIVERED ALLOCAT	IONS. The nutrient	allocations in Sub-Item (b)
14			of this	Item shall be apportioned among	g existing discharg	ers in each subcategory in
15			proport	ion to the dischargers' permitted	d flows and the	resulting delivered nutrient
16			allocati	ons assigned to each individual disc	charger.	
17	(4)	This Ite	m descri	bes allowable changes in nutrient a	llocations.	
18		(a)	The agg	gregate and individual nutrient allo	cations available to	point source dischargers in
19			the Jord	lan Reservoir Watershed are subjec	t to change:	
20			(i)	Whenever, as provided in 02B	.0262, the Commi	ssion revises the wasteload
21				allocations in order to ensure that	water quality in the	e reservoir and its tributaries
22				meets all standards in 15A NCAC	C 02B .0200 or to co	onform with applicable state
23				or federal requirements;		
24			(ii)	Whenever any portion of the nutr	ient load allocation	s is acquired by one or more
25				point source dischargers under	the provisions in t	his Rule, 15A NCAC 02B
26				.0240, and 02B .0269; and		
27			(iii)	As the result of allocation transfer	ers between point so	ources or between point and
28				nonpoint sources, as provided	elsewhere in this	Jordan Reservoir Strategy,
29				except that any allocation ca	n only be transf	Perred within its assigned
30				subwatershed.		
31		(b)	In the	event that the Commission revises	any nutrient waste	eload allocation specified in
32			15A NO	CAC 02B .0262 or Item (3) of this	Rule, the Commissi	ion shall also re-evaluate the
33			apportio	onment among the dischargers a	nd shall revise th	e individual allocations as
34			necessa	ry.		
35	(5)	This Ite	m specifi	es nutrient controls for discharges	from existing disch	arges.
36		(a)	No late	r than six months from the effect	ive date of this Ru	le, each existing discharger
37			with pe	ermitted flows greater than or eq	ual to 0.1 MGD	shall evaluate its treatment

1			faciliti	es and operations and identify further opportunities to improve and optimize
2			nutrie	nt reduction beyond those implemented pursuant to G.S. 143-215.1B(d), and shall
3			submi	t a report to the Division documenting its findings, proposed actions, and expected
4			results	s. No later than one year after the effective date of this Rule, each such discharger
5			shall s	submit a report to the division documenting the measures taken and the nutrient
6			reduct	ions achieved. Each discharger shall continue these optimization measures
7			indefi	nitely.
8		(b)	Begin	ning with calendar year 2016, any discharger with a permitted flow equal to or
9			greate	r than 0.1.5 MGD shall be subject to total nitrogen permit limits not to exceed its
10			indivi	dual discharge allocations, pursuant to Item (3) of this Rule.
11		(c)	Begin	ning with the first full calendar year after the effective date of the rule, any
12			discha	rger with a permitted flow equal to or greater than 0.1 .5 MGD shall be subject to
13			total p	hosphorus permit limits not to exceed its individual discharge allocations, pursuant
14			to Iten	n (3) of this Rule.
15		(d)	The D	irector shall establish more stringent limits for nitrogen or phosphorus upon finding
16			that su	ich limits are necessary to protect water quality standards in localized areas.
17	(6)	This It	em speci	fies nutrient controls for new discharges.
18		(a)	Any p	person proposing a new wastewater discharge to surface waters shall meet the
19			follow	ring requirements prior to applying for an NPDES permit:
20			(i)	Evaluate all practical alternatives to said discharge, pursuant to 15A NCAC 2H
21				.0105(c) (2);
22			(ii)	Make every reasonable effort to obtain allocation for the proposed discharge
23				from existing dischargers. If it cannot acquire the necessary allocation from
24				existing facilities, the proponent may purchase a portion of the nonpoint source
25				load allocation for a period of 30 years at the rate set in 15A NCAC 02B .0240
26				to implement practices designed to offset the loading created by the new facility.
27				Payment for each 30-year portion of the nonpoint source load allocation shall be
28				made prior to the ensuing permit issuance;
29			(iii)	Determine whether the proposed discharge of nutrients will cause local water
30				quality impacts; and
31			(iv)	Provide documentation with its NPDES application demonstrating that the
32				requirements of Sub-Items (i) and (ii) of this Sub-Item have been met.
33		(b)	The n	atrient discharge allocations for a new facility shall not exceed the mass equivalent
34			to a co	oncentration of 3.0 mg/L nitrogen or 0.18 mg/L phosphorus at the greatest monthly
35			flow li	mit in the discharger's NPDES permit.
36		(c)	Upon	the effective date of its NPDES permit, a new discharger shall be subject to
37			nitrog	en and phosphorus limits not to exceed its individual discharge allocations

1		(d)	The Director shall establish more stringent limits for nitrogen or phosphorus upon finding	
2			that such limits are necessary to protect water quality standards in localized areas.	
3	(7)	This Item specifies nutrient controls for expanding discharges.		
4		(a)	Any person proposing to expand an existing wastewater discharge to surface waters	
5			beyond its permitted flow as defined in this Rule shall meet the following requirements	
6			prior to applying for an NPDES permit:	
7 8			(i) Evaluate all practical alternatives to said discharge, pursuant to 15A NCAC 2H .0105(c) (2);	
9			(ii) Make every reasonable effort to obtain allocation for the proposed discharge	
10			from existing dischargers. If it cannot acquire the necessary allocation from	
11			existing facilities, the proponent may purchase a portion of the nonpoint source	
12			load allocation for a period of 30 years at the rate set in 15A NCAC 02B .0240	
13			to implement practices designed to offset the loading created by the new facility.	
14			Payment for each 30-year portion of the nonpoint source load allocation shall be	
15			made prior to the ensuing permit issuance;	
16			(iii) Determine whether the proposed discharge of nutrients will cause local water	
17			quality impact; and	
18			(iv) Provide documentation with its NPDES application demonstrating that the	
19			requirements of Sub-Items (i) through (ii) of this Sub-Item have been met.	
20		(b)	The nutrient discharge allocations for an expanding facility shall not exceed the mass	
21			value equivalent to a concentration of 3.0 mg/L nitrogen or 0.18 mg/L phosphorus at the	
22			greatest monthly flow limit in the discharger's NPDES permit except that this provision	
23			shall not result in an allocation or limit that is less than originally assigned to the	
24			discharger under this Rule.	
25		(c)	Upon expansion or upon notification by the Director that it is necessary to protect water	
26			quality, any discharger with a permitted flow of less than 0.1 MGD, as defined under this	
27			Rule, shall become subject to total nitrogen and total phosphorus permit limits not to	
28			exceed its individual discharge allocations.	
29		(d)	The Director shall establish more stringent limits for nitrogen or phosphorus upon finding	
30			that such limits are necessary to protect water quality standards in localized areas.	
31	(8)	This Ite	em describes additional requirements regarding nutrient discharge limits for wastewater	
32		facilities	S:	
33		(a)	Annual mass nutrient limits shall be established as calendar -year limits.	
34		(b)	Any point source discharger holding nutrient allocations under this Rule may by mutual	
35			agreement transfer all or part of its allocations to any new, existing, or expanding	
36			dischargers in the same Jordan Reservoir Subwatershed or to other person(s), subject to	
37			the restrictions and requirements presented in this Rule.	

1		(c)	For NI	PDES compliance purposes, the enforceable nutrient limits for an individual facility
2			or com	apliance association shall be the effective limits in the governing permit, regardless
3			of the	allocation held by the discharger or association.
4		(d)	In ord	er for any transfer of allocation to become effective as a discharge limit in an
5			individ	lual NPDES permit, the discharger must request and obtain modification of the
6			permit	. Such request must:
7			(i)	Describe the purpose and nature of the modification;
8			(ii)	Describe the nature of the transfer agreement, the amount of allocation
9				transferred, and the dischargers or persons involved;
10			(iii)	Provide copies of the transaction agreements with original signatures consistent
11				with NPDES signatory requirements; and
12			(iv)	Demonstrate to the Director's satisfaction that the increased nutrient discharge
13				will not violate water quality standards in localized areas.
14		(e)	Chang	es in a discharger's nutrient limits shall become effective upon modification of its
15			individ	lual permit but no sooner than January 1 of the year following modification. If the
16			modifi	ed permit is issued after January 1, the Director may make the limit effective on
17			that Ja	anuary 1 provided that the discharger made acceptable application in a timely
18			manne	r.
19		(f)	Region	nal Facilities. In the event that an existing discharger or group of dischargers
20			accept	s wastewater from another NPDES-permitted treatment facility in the same Jordan
21			Reserv	oir subwatershed and that acceptance results in the elimination of the discharge
22			from the	ne treatment facility, the eliminated facility's delivered nutrient allocations shall be
23			transfe	rred and added to the accepting discharger's delivered allocations.
24	(9)	This I	tem des	cribes the option for dischargers to join a group compliance association to
25		collecti	vely me	et nutrient control requirements.
26		(a)	Any o	r all facilities within the same Jordan Reservoir subwatershed may form a group
27			compli	ance association to meet delivered nutrient allocations collectively. More than one
28			group	compliance association may be established in any subwatershed. No facility may
29			belong	to more than one association at a time.
30		(b)	Any s	uch association must apply for and shall be subject to an NPDES permit that
31			establi	shes the effective nutrient limits for the association and for its members.
32		(c)	No lat	er than 180 days prior to the proposed date of a new association's operation or
33			expira	tion of an existing association's NPDES permit, the association and its members
34			shall s	submit an application for a NPDES permit for the discharge of nutrients to the
35			surface	e waters of the Jordan Reservoir Watershed. The association's NPDES permit shall
36			be issu	ed to the association and its members. It shall specify the delivered nutrient limits
37			for the	association and for each of its co-permittee members and other requirements the

I			Director deems appropriate. Association members shall be deemed in compliance with
2			the permit limits for nitrogen and phosphorus contained in their individually issued
3			NPDES permits so long as they remain members in an association.
4		(d)	An association's delivered nitrogen and phosphorus limits shall be the sum of its
5			members' individual delivered allocations for each nutrient plus any other allocation
6			obtained by the association or its members.
7		(e)	The individual delivered allocations for each member in the association permit shall
8			initially be equivalent to the discharge limits in effect in the member's NPDES permit.
9			Thereafter, changes in individual allocations or limits must be incorporated into the
10			members' individual permits before they are included in the association permit.
11		(f)	An association and its members may reapportion the individual delivered allocations of
12			its members on an annual basis. Changes in individual allocations or limits must be
13			incorporated into the members' individual permits before they are included in the
14			association permit.
15		(g)	Changes in nutrient limits shall become effective no sooner than January 1 of the year
16			following permit modification. If the modified permit is issued after January 1, the
17			Director may make the limit effective on that January 1 provided that the discharger
18			made acceptable application in a timely manner.
19		(h)	Beginning with calendar year 2016, an association that does not meet its permit limit for
20			nitrogen for a calendar year shall make an offset payment as provided and at the rate set
21			in 15A NCAC 02B .0240 no later than May 1 of the year following the exceedence.
22		(i)	Beginning with the first calendar year following the effective date of this Rule, an
23			association that does not meet its permit limit for phosphorus for a calendar year shall
24			make an offset payment as provided and at the rate set in 15A NCAC 02B .0240 no later
25			than May 1 of the year following the exceedence.
26		(j)	Association members shall be deemed in compliance with their individual delivered
27			allocations in the association NPDES permit as long as the association is in compliance
28			with its delivered allocation. If the association fails to meet its delivered allocation, the
29			association and the members that have failed to meet their individual delivered nutrient
30			allocations in the association NPDES permit will be out of compliance with the
31			association NPDES permit.
32		(k)	The Director shall establish more stringent limits for nitrogen or phosphorus upon finding
33			that such limits are necessary to protect water quality standards in localized areas.
34			
35	History Note:	Author	rity G.S. 143-214.1; 143-214.5; 143-215; 143-215.1; 143-215.3(a)(1); 143-215.8B(b);
36		143B-2	282(c); 143B-282(d); S.L. 1995, c. 572; S.L. 2005-190

 $15A\ NCAC\ 02B\ .0271$ is proposed for adoption as follows:

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15A NCAC 02B .0271 JORDAN WATER SUPPLY NUTRIENT STRATEGY: STORMWATER REQUIREMENTS FOR STATE AND FEDERAL ENTITIES

- The following is the stormwater strategy for the activities of state and federal entities within the Jordan watershed, as prefaced in Rule 02B.0262.
 - (1) PURPOSE. The purposes of this Rule are as follows.
 - (a) To achieve and maintain the nonpoint source nitrogen and phosphorus percentage reduction goals established for Jordan Reservoir in Rule 15A NCAC 02B .0262 relative to the baseline period defined in that Rule by reducing loading from state-maintained roadways and industrial facilities, and from lands controlled by other state and federal entities in the Jordan watershed;
 - (b) To ensure that the integrity and nutrient processing functions of receiving waters and associated riparian buffers are not compromised by erosive flows from state-maintained roadways and industrial facilities, and from lands controlled by other state and federal entities in the Jordan watershed; and
 - (c) To protect the water supply uses of Jordan Reservoir and of designated water supplies throughout the Jordan watershed.
 - APPLICABILITY. This Rule shall apply to all existing and new development under the control of the NC Department of Transportation (NCDOT), including roadways and industrial facilities, and to all lands controlled by other state and federal entities in the Jordan watershed. Existing development is development that exists as of the effective date of stormwater management programs established under Section (3) and (4) of this rule or development that occurs after the effective date of those programs but is not subject to the requirements of those programs, such as vested projects and redevelopment that does not yield a net increase in built-upon area. New development is development that occurs subsequent to the effective date of, and is subject to, stormwater management programs established under Sections (3) and (4) of this Rule.
 - (3) NON-NCDOT REQUIREMENTS. With the exception of the NCDOT, all state and federal entities that control lands within the Jordan watershed shall meet the following requirements:
 - (a) For any new development proposed within their jurisdictions that would disturb one acre or more for single family and duplex residential property and recreational facilities, and one-half acre or more for commercial, industrial, institutional, or multifamily residential property, non-NCDOT state and federal entities shall develop stormwater management plans for submission to and approval by the Division. These stormwater plans shall not be approved by the Division unless the following criteria are met:
 - (i) The nitrogen and phosphorus loads contributed by the proposed new development activity shall not exceed certain unit-area mass loading rates. These loading rates shall be calculated as the percentage reduction goals

established in Rule 15A NCAC 02B .0262 for the subwatershed or subwatersheds in which the development occurs, applied to area-weighted average loading rates of developable lands in the same subwatershed or subwatersheds. These area-weighted average loading rates shall be determined using land use and loading information representative of the baseline period defined in Rule 15A NCAC 02B .0262. Initial values for nitrogen and phosphorus loading rate targets respectively in each subwatershed shall be the following, expressed in units of pounds per acre per year: 2.2 and 0.82 in the Upper New Hope; 4.4 and 0.78 in the Lower New Hope; and 3.8 and 1.43 in the Haw. The Division may adjust these initial values based on improved land use and loading data or based on modifications to the strategy reduction goals in Section (7) of Rule 15A NCAC 02B .0262. The developer shall determine the need for engineered stormwater controls to meet these loading rate targets by using the loading calculation method called for in this Section or other similar method acceptable to the Division.

- (ii) Proposed new development in any water supply watershed in the Jordan watershed designated WS-II, WS-III, or WS-IV shall comply with the density-based restrictions, obligations, and requirements for engineered stormwater controls, clustering options, and 10/70 provisions described in Sections (3)(b)(i) and (3)(b)(ii) of the applicable Rule among Rules 15A NCAC 02B .0214 through .0216;
- (iii) Stormwater systems shall be designed to control and treat the runoff generated from all surfaces by one inch of rainfall. The treatment volume shall be drawn down no faster than 48 hours and no slower than 120 hours. Treatment systems shall achieve an 85 percent average annual removal rate for Total Suspended Solids. To ensure that the integrity and nutrient processing functions of receiving waters and associated riparian buffers are not compromised by erosive flows, stormwater flows from the development shall not contribute to degradation of waters of the State. At a minimum, the development shall not result in a net increase in peak flow leaving the site from pre-development conditions for the one-year, 24-hour storm event;
- (iv) Proposed new development that would replace or expand structures or improvements that existed as of December 2001, the end of the baseline period, and which would not result in a net increase in built-upon area shall not be required to meet the nutrient loading targets or high-density requirements except to the extent that it shall provide at least equal stormwater control to the previous development. Proposed new development that would replace or

1		expand existing structures or improvements and would result in a net increase in
2		built-upon area shall have the option to either achieve at least the percentage
3		loading reduction goals stated in Rule 15A NCAC 02B .0262 as applied to
4		nitrogen and phosphorus loading from the previous development for the entire
5		project site, or to meet the loading rate targets described in Section (3)(a)(i);
6	(v	The proposed new development shall comply with the riparian buffer protection
7		requirements of Rules 15A NCAC 02B .0267 and .0268;
8	(v	i) The entity shall have the option of partially offsetting the nitrogen and
9		phosphorus loads by funding offsite management measures. These offsite,
10		offsetting measures shall achieve at least equivalent reductions in nitrogen and
11		phosphorus loading to the remaining reduction needed onsite to comply with
12		Sub-Item (3)(a)(i) of this Rule. Only offsetting loading reductions in excess of
13		reductions required under other Rules in this strategy shall receive credit. The
14		entity may utilize the offset option provided in Rule 15A NCAC 02B .0240 for
15		this purpose, contingent upon acceptance of their offset proposals by the NC
16		Ecosystem Enhancement Program. Before using off-site offset options, the
17		development shall meet any requirements for engineered stormwater controls
18		described in Section (3)(a)(ii) of this Rule and under NPDES Phase II
19		regulations, and shall attain a maximum nitrogen loading rate of 4
20		pounds/acre/year for single-family detached and duplex residential development
21		and 8 pounds/acre/year for other development, including multi-family
22		residential, commercial and industrial; and
23	(1)	ii) The non-NCDOT state or federal entity shall include measures to ensure
24	(*	maintenance of best management practices (BMPs) implemented as a result of
25		the provisions in Sub-Item (3)(a) of this Rule for the life of the development.
26	(b) Fo	or existing development, non-NCDOT state and federal entities shall develop and
27	` '	
		aplement programs for achieving sustained nutrient loading reductions from existing
28		evelopment. Non-NCDOT state and federal entities shall submit these programs for
29	-	proval by the Division. The load reduction program shall meet the following criteria:
30	(i)	
31		percentage nutrient loading reduction goals in Item (3) of Rule 15A NCAC 02B
32		.0262 relative to annual loading representative of the baseline period defined in
33		that Rule and as applied to existing development lands within each
34		subwatershed under its land use authority. In addressing this long-term
35		objective, subject entities shall include estimates of, and plans for offsetting,
36		nutrient loading increases from lands developed subsequent to the baseline
37		period but prior to implementation of new development programs. Should

1			percentage reduction goals be adjusted pursuant to Section (7) of Rule 15A
2			NCAC 02B .0262, then the annual loading goals established in this Sub-Section
3			shall be adjusted accordingly. Entities may seek to fund implementation of
4			load-reducing activities through grant sources such as the North Carolina Clean
5			Water Management Trust Fund, the North Carolina Clean Water Act Section
6			319 Grant Program, or other funding programs for nonpoint sources;
7		(ii)	Entities shall conduct feasibility studies to determine the extent to which the
8			loading goals referenced in this Rule may be achieved from lands within an
9			entity's jurisdiction that are not subject to Sub-Item (3)(a) of this Rule, including
10			existing developed lands, through retrofitting. Entities shall develop a proposed
11			implementation rate and compliance schedule for load reductions. This schedule
12			shall provide for reasonable and steady progress toward reduction goals
13			throughout the proposed compliance period. ;
14		(iii)	The program shall identify specific load-reducing practices implemented to date
15			subsequent to the baseline period and for which it is seeking credit;
16		(iv)	The program shall identify the types of activities the entity intends to implement
17			and types of existing development affected, relative proportions or a
18			prioritization of practices, and the relative magnitude of reductions it expects to
19			achieve from each. An entity may credit any nitrogen or phosphorus load
20			reductions in excess of those required by other rules in this Chapter. The
21			program shall identify the duration of anticipated loading reductions, and should
22			seek activities that provide sustained, long-term reductions. Potential load-
23			reducing activities may include but would not be limited to stormwater activities
24			such as street sweeping, removal of existing built-upon area, retrofitting of
25			existing development with engineered best management practices (BMPs),
26			requiring treatment of runoff in redevelopment projects, requiring over-
27			treatment of runoff in new development projects, collection system
28			improvements, and removal of illegal discharges;
29		(v)	An entity shall have the option of working with municipalities or counties within
30			its subwatershed to jointly meet the loading targets from all existing
31			development within their combined jurisdictions; and
32		(vi)	The entity shall include measures to provide for operation and maintenance of
33		()	retrofitted stormwater controls to ensure that they meet the loading targets
34			required in Sub-Item (3)(b) of this Rule for the life of the development.
35	(4)	The NCDOT sh	all develop a single Stormwater Management Program that will be applicable to
36	(.)		watershed and submit this program for approval by the Division. The program
37			following elements and meet the associated criteria:
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((a)	Identify	VICDOT	stormwater	outfalls fi	rom Interstate	LIC	and NC	nrimary	v routes
((a)	raemin	y NCDOT	Stormwater	outians n	iom mierstate	, US	, and inc	primary	y routes

- (b) Identify and eliminate illegal discharges into the NCDOT's stormwater conveyance system;
 - Establish a strategy for post-construction stormwater runoff control for new development, including new and widening NCDOT roads and industrial facilities. The strategy shall be designed to achieve and maintain the nitrogen and phosphorus percentage loading reduction goals established for each subwatershed in Rule 15A NCAC 02B .0262 on new development in each subwatershed relative to estimates of loads delivered to Jordan Reservoir from developable lands. Load estimates shall be based on either areaweighted average loading rates of developable lands representative of the baseline period defined in Rule 15A NCAC 02B .0262, or on project-specific quantification of predevelopment land uses and associated loading rates. Load estimates based on developable lands shall be further based on the following at-source target values, expressed in units of pounds per acre per year of nitrogen and phosphorus respectively, for activities in each subwatershed: 2.2 and 0.82 in the Upper New Hope; 4.4 and 0.78 in the Lower New Hope; and 3.8 and 1.43 in the Haw. The Division may adjust these initial values based on improved land use and loading data or based on modifications to the strategy reduction goals in Section (7) of Rule 15A NCAC 02B .0262. The NCDOT may propose to achieve equivalent reductions to these loading rate targets delivered to Jordan Reservoir from various activities in each subwatershed. This may include utilizing the offset option provided in Rule 15A NCAC 02B .0240 for this purpose, contingent upon approval by the NC Ecosystem Enhancement Program. stormwater treatment systems are needed to meet these goals, as defined in the Stormwater Management Program, they shall be designed to control and treat the runoff generated from all surfaces by one inch of rainfall. It shall also address control of runoff flows to meet the purpose of this Rule regarding protection of the nutrient functions and integrity of receiving waters. The strategy shall establish a process by which the Division shall review and approve stormwater designs for NCDOT development projects. The strategy shall delineate the scope of vested projects that would be considered as existing development, and shall define lower thresholds of significance for activities considered new development;
- (d) Identify and implement load reducing opportunities on existing development within the watershed. The long-term objective of this effort shall be for the NCDOT to achieve the nutrient loading goals in Rule 15A NCAC 02B .0262 as applied to existing development under its control, including roads and industrial facilities. In addressing this long-term objective, the NCDOT shall include estimates of, and plans for offsetting, nutrient loading increases from lands developed subsequent to the baseline period but prior to

1			implementation of its new development program. The plan shall include a feasibility
2			analysis on the extent to which the NCDOT can meet these goals and a proposed
3			implementation rate and schedule. This schedule shall provide for reasonable and steady
4			progress toward reduction goals throughout the proposed compliance period. The plan
5			shall identify the types of activities DOT intends to implement and types of existing
6			development affected, relative proportions or a prioritization of practices, and the relative
7			magnitude of reductions it expects to achieve from each.;
8		(e)	Initiate a "Nutrient Management Education Program" for NCDOT staff and contractors
9			engaged in the application of fertilizers on highway rights of way. The purpose of this
10			program shall be to contribute to the loading reduction goals established in Rule 15A
11			NCAC 02B .0262 through proper application of nutrients, both inorganic fertilizer and
12			organic nutrients, to highway rights of way in the Jordan watershed in keeping with the
13			most current state-recognized technical guidance on proper nutrient management; and
14		(f)	Address compliance with the riparian buffer protection requirements of Rules 15A
15			NCAC 02B .0267 and .0268 through a Division approval process.
16	(5)	NON-N	ICDOT RULE IMPLEMENTATION. For all state and federal entities that control lands
17		within t	the Jordan watershed with the exception of the NCDOT, this Rule shall be implemented as
18		follows	:
19		(a)	Subject entities shall comply with the requirements of Sub-Item (3)(a) of this Rule for
20			any new development proposed within their jurisdictions after the effective date of this
21			Rule;
22		(b)	Within 36 months after the effective date of this Rule, subject entities shall submit
23			loading reduction programs addressing Sub-Item (3)(b) of this Rule to the Division,
24			including the following regarding Sub-Item (3)(b)(ii) of this Rule:
25			(i) The results of feasibility studies that determine the extent to which the loading
26			goals referenced in this Rule may be achieved from existing development lands
27			within their jurisdictions;
28			(ii) A proposed implementation schedule for load reduction projects.
29		(c)	Within 46 months of the effective date of this Rule, the Division shall request the
30			Commission's approval of entities' load reduction programs submitted under Sub-Item
31			(5)(b) of this Rule. The Commission shall either approve the programs or require
32			changes. Should the Commission require changes, the Division shall address those
33			changes and seek Commission approval at the earliest feasible date subsequent to the
34			original request;
35		(d)	Within 48 months of the effective date of this Rule, or within two months following
36			Commission approval of a program, whichever is later, entities shall implement load
37			reduction programs on the timeframe established under the feasibility study; and

1		(e) Upon implementation, subject entities shall provide annual reports to the Division
2		documenting their progress in implementing the requirements of Item (3) of this Rule,
3		including changes to nutrient loading due to implementation of Sub-Item (3)(b) of this
4		Rule.
5	(6)	NCDOT RULE IMPLEMENTATION. For the NCDOT, this rule shall be implemented as
6		follows:
7		(a) Within 18 months of the effective date of this rule, the NCDOT shall submit the
8		Stormwater Management Plan for the Jordan watershed to the Division for approval.
9		This Plan shall meet or exceed the requirements in Item (4) of this Rule;
10		(b) Within 28 months of the effective date of this Rule, the Division shall request the
11		Commission's approval of the NCDOT Stormwater Management Plan;
12		(c) Within 30 months of the effective date of this Rule, the NCDOT shall implement the
13		approved Stormwater Management Plan; and
14		(d) Upon implementation, the NCDOT shall submit annual reports to the Division
15		summarizing its activities in implementing each of the requirements in Item (4) of this
16		Rule.
17	(7)	RELATIONSHIP TO OTHER REQUIREMENTS. The NCDOT may in its program submittal
18		under Sub-Item (6)(b) of this Rule request that the Division accept the NCDOT's implementation
19		of another stormwater program or programs, such as NPDES stormwater requirements, as
20		satisfying one or more of the requirements set forth in Item (4) of this Rule. The Division shall
21		provide determination on acceptability of any such alternatives prior to requesting Commission
22		approval of NCDOT programs as required in Sub-Item (6)(b) of this Rule. The NCDOT shall
23		include in its program submittal technical information demonstrating the adequacy of the
24		alternative requirements.
25		
26	History Note:	Authority G S. 143-214.1; 143-214.5; 143-214.5(i); 143-214.7; 143-214.12; 143-214.21; 143-
27		215.3(a)(1); 143-215.6A; 143-215.6B; 143-215.6C; 143-282(d); 143-215.8B(b); 143B-282(c);
28		143B-282(d; S.L. 2005-190
29	15A NCAC 02I	3 .0272 is proposed for adoption as follows:
30		
31	15A NCAC 021	B .0272 RIPARIAN BUFFER MITIGATION FEES
32	The following i	s the process for payment of fees to mitigate riparian buffer impacts as allowed under rules in this
33	subchapter. Th	ese fees shall be paid to the Riparian Buffer Restoration Fund administered by the North Carolina
34	Ecosystem Enh	ancement Program. Persons who wish to use this option shall first meet the criteria established for
35	doing so in the	buffer rules in this subchapter that reference this Rule. Such buffer rules include, but may not be
36	limited to, Rules	s 15A NCAC 02B .0242, .0244, .0260, and .0268.

1	(1)	PAYMENT TO THE RIPARIAN BUFFER RESTORATION FUND. Persons who choose to
2		satisfy their mitigation determination by paying a compensatory mitigation fee to the Riparian
3		Buffer Restoration Fund as allowed here shall use the following procedure:
4		(a) SCHEDULE OF FEES: The amount of payment into the Fund shall be based on the
5		costs of riparian buffer restoration. The payment amount shall be determined by
6		multiplying the acres or square feet of mitigation required under other rules in this
7		Subchapter by an initial value of seventy cents per square foot or thirty thousand four
8		hundred and ninety two dollars per acre (\$2/acre). This initial per-acre rate shall be
9		adjusted in January of each year by staff of the NC Ecosystem Enhancement Program
10		based upon the construction cost index factor published every December in the
11		Engineering News Record.
12		(b) The required fee shall be submitted to the N.C. Ecosystem Enhancement Program (NC
13		EEP), 1652 Mail Service Center, Raleigh, NC 27699-1652 prior to any activity that
14		results in the removal or degradation of the protected riparian buffer for which a "no
15		practical alternatives" determination has been made pursuant to requirements of other
16		rules in this subchapter.
17		(c) The payment of a compensatory mitigation fee may be fully or partially satisfied by
18		donation of real property interests pursuant to requirements of other rules in this
19		subchapter.
20		
21	History Note:	Authority G.S. 143-214.1; 143-214.5; 143-214.5(i); 143-214.7; 143-214.12; 143-214.21; 143-
22		215.3(a)(1); 143-215.6A; 143-215.6B; 143-215.6C; 143-282(d); 143-215.8B(b); 143B-282(c);
23		143B-282(d; S.L. 2005-190
24 25		